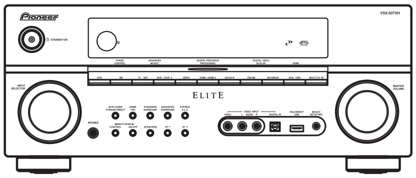
Pioneer sound.vision.soul

Service Manual


VSX-03TXH

ORDER NO.
RRV3766

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-03TXH
VSX-9130TXH-K
VSX-01TXH
VSX-1018AH-K

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Remarks
VSX-03TXH	KUXJ/CA	AC 120 V	
VSX-9130TXH-K	KUXJ	AC 120 V	
VSX-01TXH	KUXJ/CA	AC 120 V	
VSX-1018AH-K	KUXJ	AC 120 V	

!

For details, refer to "Important Check Points for good servicing".

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SAFETY INFORMATION

This service manual is intended for qualified service technicians ; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING
This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

NOTICE
(FOR CANADIAN MODEL ONLY)
Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE
(POUR MODÈLE CANADIEN SEULEMENT)
Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

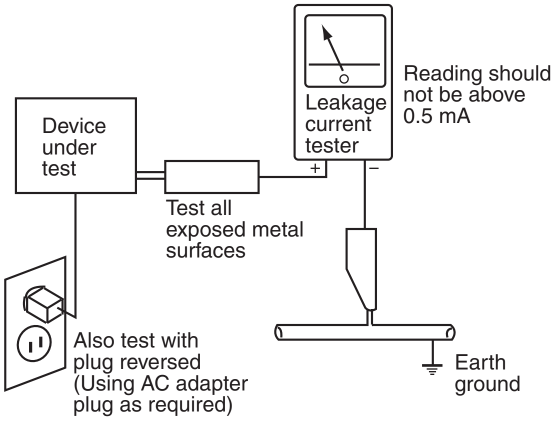
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.


Device under test
Leakage current tester
Reading should not be above 0.5 mA
+
−
Test all exposed metal surfaces
Also test with plug reversed (Using AC adapter plug as required)
Earth ground

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

[Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol.
Please be sure to confirm and follow these procedures.

1. Product safety

Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris.
Soldering should be finished with the proper quantity. (Refer to the example)

④ Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

⑥ Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs.
In addition, be sure that there are no pinched wires, etc.

⑦ Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

⑧ There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages.
If you find a damaged power cord, please exchange it with a suitable one.

⑨ There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

⑩ Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries.
Please pay attention to your surroundings and repair safely.

2. Adjustments

To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification.
Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts

Use grease and adhesives that are equal to the specified substance.
Make sure the proper amount is applied.

4. Cleaning

For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws

To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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1. SERVICE PRECAUTIONS

1.1 NOTES ON SOLDERING

- For environmental protection, lead-free solder is used on the printed circuit boards mounted in this unit.
  Be sure to use lead-free solder and a soldering iron that can meet specifications for use with lead-free solders for repairs accompanied by reworking of soldering.

- Compared with conventional eutectic solders, lead-free solders have higher melting points, by approximately 40 °C.
  Therefore, for lead-free soldering, the tip temperature of a soldering iron must be set to around 373 °C in general, although the temperature depends on the heat capacity of the PC board on which reworking is required and the weight of the tip of the soldering iron.

Do NOT use a soldering iron whose tip temperature cannot be controlled.

Compared with eutectic solders, lead-free solders have higher bond strengths but slower wetting times and higher melting temperatures (hard to melt/easy to harden).

The following lead-free solders are available as service parts:

- Parts numbers of lead-free solder:
  GYP1006 1.0 in dia.
  GYP1007 0.6 in dia.
  GYP1008 0.3 in dia.

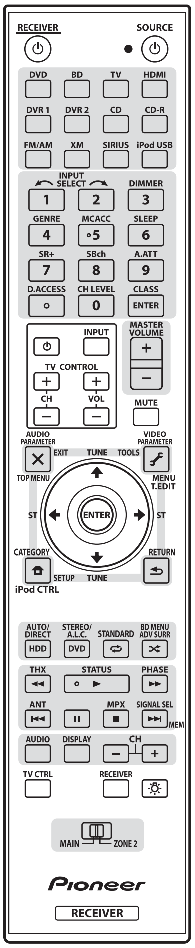
1.2 CAUTION

- Before removing the Power Amp Assy, it is neccessary to discharge C5721 and C5722.
  For more detail, please refer to page 67.

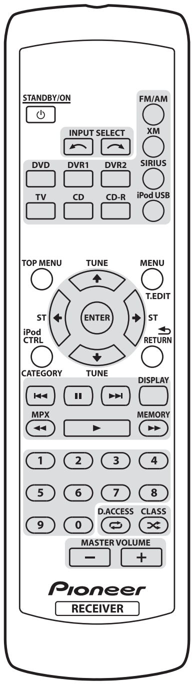
2. SPECIFICATIONS

2.1 ACCESSORIES

[1] Accessories


RECEIVER
SOURCE
DVD
BD
TV
HDMI
DVR 1
DVR 2
CD
CD-R
FM/AM
XM
SIRIUS
iPod USB
INPUT SELECT
DIMMER
1
2
3
GENRE
MCACC
SLEEP
4
5
6
SR+
SBch
A.ATT
7
8
9
D.ACCESS
CH LEVEL
CLASS
0
ENTER
INPUT
MASTER VOLUME
TV CONTROL
CH
VOL
MUTE
AUDIO PARAMETER
VIDEO PARAMETER
EXIT
TUNE
TOOLS
TOP MENU
MENU
T.EDIT
ST
ENTER
ST
CATEGORY
RETURN
SETUP
TUNE
iPod CTRL
AUTO/DIRECT
STEREO/A.L.C.
STANDARD
BD MENU ADV SURR
HDD
DVD
THX
STATUS
PHASE
ANT
MPX
SIGNAL SEL
MEM
AUDIO
DISPLAY
CH
TV CTRL
RECEIVER
MAIN
ZONE 2
Pioneer
RECEIVER

Remote Control Unit
(AXD7517: VSX-03TXH, VSX-01TXH)
(AXD7525: VSX-9130TXH, VSX-1018AH)


STANDBY/ON
FM/AM
INPUT SELECT
XM
DVD
DVR1
DVR2
SIRIUS
TV
CD
CD-R
iPod USB
TOP MENU
TUNE
MENU
T.EDIT
ST
ENTER
ST
iPod CTRL
RETURN
CATEGORY
TUNE
DISPLAY
MPX
MEMORY
1
2
3
4
5
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7
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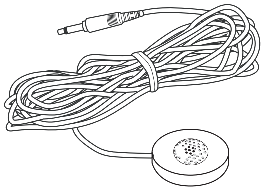
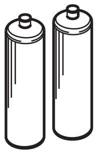
D.ACCESS
CLASS
MASTER VOLUME
Pioneer
RECEIVER

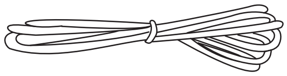
Sub Remote Control Unit
(AXD7529: VSX-03TXH)



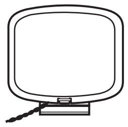
Setup Microphone
(for Auto MCACC setup)
(APM7008)



AA/LR6 Dry Cell Batteries
(VEM1031)

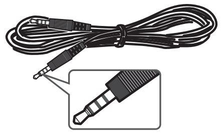


FM Wire Antenna
(ADH7030)



AM Loop Antenna
(ATB7013)

SERVICE PARTS



SR+ mini-plug cable
(ADE7095)

2.2 SPECIFICATIONS

[1] Specifications

Amplifier section

Continuous average power output of 110 watts* per channel, min., at 8 ohms, from 20 Hz to 20 000 Hz with no more than 0.09 % total harmonic distortion (front).**

Continuous Power Output (20 Hz to 20 kHz, 8 Ω, 0.09 %)

Front	110 W + 110 W
Center	110 W
Surround	110 W + 110 W
Surround back	110 W + 110 W

Continuous Power Output (1 kHz, 6 Ω, 1.0 %)

Front	150 W + 150 W
Center	150 W
Surround	150 W + 150 W
Surround back	150 W + 150 W

Total harmonic distortion	0.09 % (20 Hz to 20 kHz, 110 W, 8 Ω)

Related Power Output (1 kHz, 8 Ω, 0.05 %) (9130TXH-K)

Front	140 W per channel
Center	140 W
Surround	140 W per channel

Total harmonic distortion	0.09 % (20 Hz to 20 kHz, 110 W, 8 Ω)

Related Power Output (1 kHz, 8 Ω, 0.05 %) (1018AH-K)

Front	130 W per channel
Center	130 W
Surround	130 W per channel

Total harmonic distortion	0.09 % (20 Hz to 20 kHz, 110 W, 8 Ω)

** Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers*
*** Measured by Audio Spectrum Analyzer*

Audio Section

Input (Sensitivity/Impedance)	
LINE	335 mV/47 kΩ
Frequency Response (LINE)	5 Hz to 100 000 Hz $^{+0}_{-3}$ dB
Output (Level/Impedance)	
REC	335 mV/2.2 kΩ
Tone Control	
BASS	±6 dB (100 Hz)
TREBLE	±6 dB (10 kHz)
LOUDNESS	+4 dB/+2 dB (100 Hz/10 kHz) (at volume position –40 dB)
Signal-to-Noise Ratio (IHF, short circuited, A network)	
LINE	103 dB
Signal-to-Noise Ratio [EIA, at 1 W (1 kHz)]	
LINE	83 dB

Composite Video/S-Video Section

Input (Sensitivity/Impedance)	1 Vp-p/75 Ω
Output (Level/Impedance)	1 Vp-p/75 Ω
Signal-to-Noise Ratio	65 dB
Frequency Response	5 Hz to 10 MHz

Component Video Section

Input (Sensitivity/Impedance)	1 Vp-p/75 Ω
Output (Level/Impedance)	1 Vp-p/75 Ω
Signal-to-Noise Ratio	65 dB
Frequency Response	5 Hz to 100 MHz

HDMI Section

Input	19-pin x 3
Output	19-pin (5 V, 100 mA)

FM Tuner Section

Frequency Range	87.5 MHz to 108 MHz
Usable Sensitivity	Mono: 13.2 dBf, IHF (1.3 μV/75 Ω)
50 dB Quieting Sensitivity	Mono: 20.2 dBf Stereo: 38.6 dBf
Signal-to-Noise Ratio	Mono: 73 dB (at 85 dBf) Stereo: 70 dB (at 85 dBf)
Distortion	Stereo: 0.5 % (1 kHz)
Alternate Channel Selectivity	60 dB (400 kHz)
Stereo Separation	40 dB (1 kHz)
Frequency Response	30 Hz to 15 kHz ±1 dB
Antenna Input	75 Ω unbalanced

AM Tuner Section

Frequency Range	530 kHz to 1 700 kHz
Sensitivity (IHF, Loop antenna)	350 μV/m
Selectivity	25 dB
Signal-to-Noise Ratio	50 dB
Antenna	Loop antenna

Miscellaneous

Power Requirements	AC 120 V, 60 Hz
Power Consumption	390 W
In standby	0.6 W (HDMI Control OFF) 0.75 W (HDMI Control ON)
Dimensions	420 (W) mm x 173 (H) mm x 433 (D) mm (16 9/16 (W) in. x 6 13/16 (H) in. x 17 1/16 (D) in.)
Weight (without package)	13.5 kg (29 lbs 13 oz) (03TXH, 9130TXH)
Weight (without package)	13.3 kg (29 lbs 6 oz) (01TXH, 1018AH-K)

Furnished Parts

Setup microphone (for Auto MCACC setup)	1
AA/IEC R6P dry cell batteries	4
AA/IEC R6P dry cell batteries	2 (9130TXH-K, 01TXH, 1018AH-K)
Remote control unit	1
Sub room remote control unit (VSX-03TXH)	1
AM loop antenna	1
FM wire antenna	1
Warranty card	1
Operating instructions	

Note

- Specifications and the design are subject to possible modifications without notice, due to improvements.

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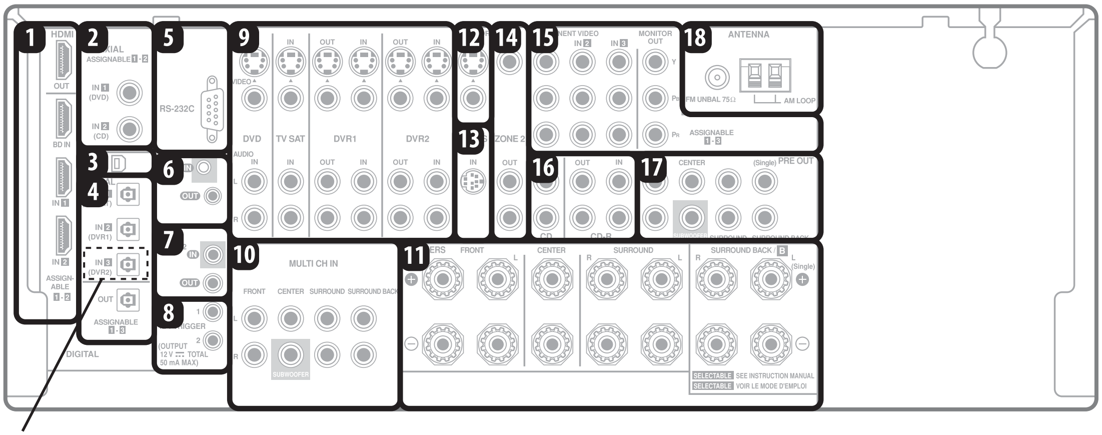
2.3 PANEL FACILITIES

[1] Rear panel (for VSX-03TXH, VSX-9130TXH, VSX-01TXH)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HDMI
OUT
BD IN
IN 1
IN 2
ASSIGN-ABLE 1-2
COAXIAL
ASSIGNABLE 1-2
IN 1 (DVD)
IN 2 (CD)
IN 2 (DVR1)
IN 3 (DVR2)
OUT
ASSIGNABLE 1-3
DIGITAL
RS-232C
IN
OUT
TRIGGER
(OUTPUT 12 V TOTAL 50 mA MAX)
VIDEO
AUDIO
DVD
TV SAT
DVR1
DVR2
MULTI CH IN
FRONT
CENTER
SURROUND
SURROUND BACK
SUBWOOFER
ZONE 2
MONITOR OUT
CD
CD-R
CENTER
(Single)
PRE OUT
ANTENNA
FM UNBAL 75Ω
AM LOOP
ASSIGNABLE 1-3
FRONT
CENTER
SURROUND
SURROUND BACK / B
SELECTABLE SEE INSTRUCTION MANUAL
SELECTABLE VOIR LE MODE D'EMPLOI

Except VSX-01TXH

Caution

- Before making or changing the connections, switch off the power and disconnect the power cord from the power outlet. Plugging in should be the final step.

1 HDMI connectors (x4)
Three inputs and one output for high-quality audio/video connection to compatible HDMI devices.

2 Coaxial digital audio inputs (x2)
Use for digital audio sources, including DVD players/recorders, digital satellite receivers, CD players, etc.

3 XM Radio input

4 Optical digital audio output/input(s)
(x4) (VSX-03TXH, VSX-9130TXH)
(x3) (VSX-01TXH)

Use the **OUT** jack for recording to a CD or MiniDisc recorder.

Use the **IN** jacks for digital audio sources, including DVD players/recorders, digital satellite receivers, CD players, etc.

5 RS-232C connector
Use for connection to a PC for graphical output when using Advanced MCACC.

6 Control input/output
Use to connect other Pioneer components so that you can control all your equipment from a single IR remote sensor.

7 Remote input/output (MULTI-ZONE)
Use for connection to an external remote control sensor for use in a MULTI-ZONE setup, for example.

8 12 V trigger jacks *(total 50 mA max.)* **(x2)**
Use to switch components in your system on and off according to the input function of the receiver.

9 Audio/video source inputs/(outputs) (x6)
Use for connection to audio/visual sources, such as DVD players/recorders, VCRs, etc. Each set of inputs has jacks for composite video, S-Video and stereo analog audio.

10 Multichannel analog audio inputs
7.1 channel inputs for connection to a DVD player with multichannel analog outputs.

11 Speaker terminals
Use for connection to the main front, center, surround and surround back speakers.

12 Composite and S-Video monitor outputs
Use to connect monitors and TVs.

13 SIRIUS Radio input

14 ZONE 2 audio/video outputs
Use to connect a second receiver in a separate room.

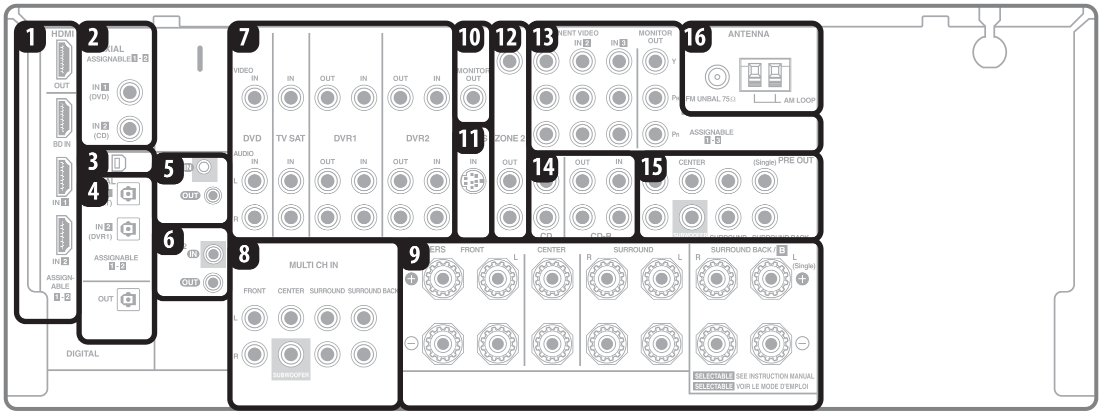
15 Component video connections (x4)
Use the inputs to connect any video source that has component video output, such as a DVD recorder. Use the output for connection to a monitor or TV.

16 Stereo analog audio source inputs/(outputs) (x3)
Use for connection to audio sources such as CD players, tape decks, turntables, etc.

17 Multichannel pre-amplifier outputs
Use to connect separate amplifiers for front, center, surround, surround back and subwoofer channels.

18 AM and FM antenna terminals
Use to connect indoor or outdoor antennas for radio broadcasts.

[2] Rear panel (for VSX-1018AH)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HDMI
OUT
BD IN
IN 1
IN 2
ASSIGNABLE 1 - 2
COAXIAL
ASSIGNABLE 1 - 2
IN 1 (DVD)
IN 2 (CD)
IN 2 (DVR1)
ASSIGNABLE 1 - 2
OUT
DIGITAL
IN
OUT
VIDEO
AUDIO
DVD
TV SAT
DVR1
DVR2
MONITOR OUT
ZONE 2
MULTI CH IN
FRONT
CENTER
SURROUND
SURROUND BACK
SUBWOOFER
COMPONENT VIDEO
IN 2
IN 3
MONITOR OUT
Y
PB
PR
ASSIGNABLE 1 - 3
ANTENNA
FM UNBAL 75Ω
AM LOOP
CD
CD-R
CENTER
(Single)
PRE OUT
SPEAKERS
FRONT
CENTER
SURROUND
SURROUND BACK / B
(Single)
SELECTABLE SEE INSTRUCTION MANUAL
SELECTABLE VOIR LE MODE D'EMPLOI

Caution

- Before making or changing the connections, switch off the power and disconnect the power cord from the power outlet. Plugging in should be the final step.

1 HDMI connectors (x4)
Three inputs and one output for high-quality audio/video connection to compatible HDMI devices.

2 Coaxial digital audio inputs (x2)
Use for digital audio sources, including DVD players/recorders, digital satellite receivers, CD players, etc.

3 XM Radio input

4 Optical digital audio output/input(s) (x3)
Use the **OUT** jack for recording to a CD or MiniDisc recorder.

Use the **IN** jacks for digital audio sources, including DVD players/recorders, digital satellite receivers, CD players, etc.

5 Control input/output
Use to connect other Pioneer components so that you can control all your equipment from a single IR remote sensor.

6 Remote input/output (MULTI-ZONE)
Use for connection to an external remote control sensor for use in a MULTI-ZONE setup, for example.

7 Audio/video source inputs/(outputs) (x6)
Use for connection to audio/visual sources, such as DVD players/recorders, VCRs, etc. Each set of inputs has jacks for composite video and stereo analog audio.

8 Multichannel analog audio inputs
7.1 channel inputs for connection to a DVD player with multichannel analog outputs.

9 Speaker terminals
Use for connection to the main front, center, surround and surround back speakers.

10 Composite monitor outputs
Use to connect monitors and TVs.

11 SIRIUS Radio input

12 ZONE 2 audio/video outputs
Use to connect a second receiver in a separate room.

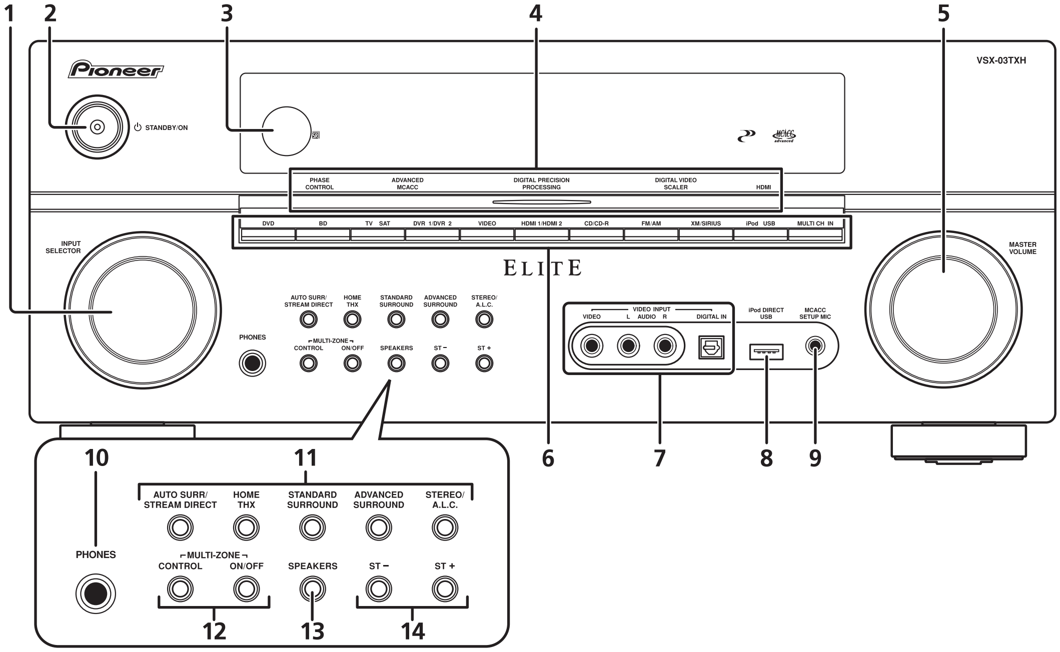
13 Component video connections (x4)
Use the inputs to connect any video source that has component video output, such as a DVD recorder. Use the output for connection to a monitor or TV.

14 Stereo analog audio source inputs/(outputs) (x3)
Use for connection to audio sources such as CD players, tape decks, turntables, etc.

15 Multichannel pre-amplifier outputs
Use to connect separate amplifiers for front, center, surround, surround back and subwoofer channels.

16 AM and FM antenna terminals
Use to connect indoor or outdoor antennas for radio broadcasts.

[3] Front panel


1
2
3
4
5
Pioneer
VSX-03TXH
STANDBY/ON
PHASE CONTROL
ADVANCED MCACC
DIGITAL PRECISION PROCESSING
DIGITAL VIDEO SCALER
HDMI
DVD
BD
TV SAT
DVR 1/DVR 2
VIDEO
HDMI 1/HDMI 2
CD/CD-R
FM/AM
XM/SIRIUS
iPod USB
MULTI CH IN
INPUT SELECTOR
MASTER VOLUME
ELITE
AUTO SURR/ STREAM DIRECT
HOME THX
STANDARD SURROUND
ADVANCED SURROUND
STEREO/ A.L.C.
PHONES
MULTI-ZONE
CONTROL
ON/OFF
SPEAKERS
ST −
ST +
VIDEO INPUT
VIDEO
L AUDIO R
DIGITAL IN
iPod DIRECT USB
MCACC SETUP MIC
6
7
8
9
10
11
12
13
14

1 INPUT SELECTOR dial
Use to select an input source.

2 ⏻ STANDBY/ON
Switches the receiver between on and standby. Power indicator lights when the receiver is on.

3 Remote sensor
Receives the signals from the remote control.

4 PHASE CONTROL indicator – Lights when the Phase Control is switched on.

ADVANCED MCACC indicator – Lights when one of the MCACC presets is selected.[1]

DIGITAL PRECISION PROCESSING indicator – Lights to indicate digital processing (for example, it disappears when Pure Direct is on, or when listening through the multichannel analog inputs).

DIGITAL VIDEO SCALER indicator – Lights when Resolution is set to a setting other than **PURE** (for example, when the video input signal is upscaled).

HDMI indicator – Blinks when connecting an HDMI-equipped component; lights when the component is connected.

5 MASTER VOLUME dial

6 Input source buttons
Press to select an input source.

7 VIDEO INPUT

8 iPod DIRECT USB terminal
Use to connect your Apple iPod as an audio source, or connect a USB audio device for playback.

9 MCACC SETUP MIC jack
Use to connect the supplied microphone.

10 PHONES jack
Use to connect headphones. When the headphones are connected, there is no sound output from the speakers.

11 Listening mode buttons

AUTO SURR/STREAM DIRECT – Switches between Auto surround mode and Stream Direct playback. Stream Direct playback bypasses the bass/treble controls for the most accurate reproduction of a source.

HOME THX (Except 1018AH) – Press to select a Home THX listening mode.

SOUND RETRIEVER (1018AH) – Press to restore CD quality sound to compressed audio sources.

STANDARD SURROUND – Press for Standard decoding and to switch between the various ꟷꟷ Pro Logic IIx and Neo:6 options.

ADVANCED SURROUND – Use to switch between the various surround modes.

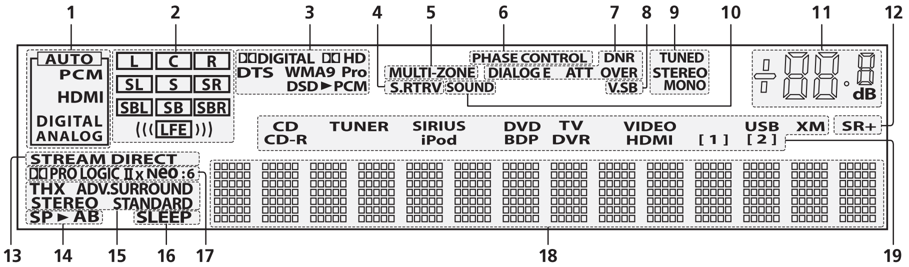
STEREO/A.L.C. – Switches between stereo playback, Auto level control stereo mode and Front Stage Surround Advance modes.

12 MULTI-ZONE controls
If you've made MULTI-ZONE connections, use these controls to control the sub zone from the main zone.

13 SPEAKERS
Use to change the speaker system.

14 ST +/–
Use to select preset radio stations.

[4] Display


1
2
3
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5
6
7
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9
10
11
12
AUTO
PCM
HDMI
DIGITAL
ANALOG
L C R
SL S SR
SBL SB SBR
(((LFE)))
DD DIGITAL DD HD
DTS WMA9 Pro
DSD►PCM
MULTI-ZONE
S.RTRV SOUND
PHASE CONTROL
DIALOG E ATT
DNR
OVER
V.SB
TUNED
STEREO
MONO
dB
CD CD-R
TUNER
SIRIUS iPod
DVD BDP
TV DVR
VIDEO HDMI
[1]
USB [2]
XM
SR+
STREAM DIRECT
DD PRO LOGIC IIx neo:6
THX ADV.SURROUND
STEREO STANDARD
SP►AB
SLEEP
13
14
15
16
17
18
19

1 SIGNAL indicators
Light to indicate the currently selected input signal. **AUTO** lights when the receiver is set to select the input signal automatically.

2 Program format indicators
These change according to which channels are active in digital sources.

L – Left front channel
C – Center channel
R – Right front channel
SL – Left surround channel
S – Surround channel (mono)
SR – Right surround channel
SBL – Left surround back channel
SB – Surround back channel (mono)
SBR – Right surround back channel
LFE – Low frequency effects channel (the **((( )))** indicators light when an LFE signal is being input)

3 Digital format indicators
Light when a signal encoded in the corresponding format is detected (**DSD►PCM** lights during the DSD (Direct Stream Digital) to PCM conversion with SACDs).

4 S.RTRV
Lights when the Sound Retriever is switched on.

5 MULTI-ZONE
Lights when the MULTI-ZONE feature is active.

6 PHASE CONTROL
Lights when the Phase Control is switched on.

7 Sound processing indicators
Light according to the active Audio parameter(s) and/or **ANALOG ATT**.

8 V.SB
Lights during Virtual surround back processing.

9 TUNER indicators
TUNED – Lights when a broadcast is being received.

STEREO – Lights when a stereo FM broadcast is being received in auto stereo mode.

MONO – Lights when the mono mode is set using the **MPX** button.

10 SOUND
Lights when any of the Midnight, Loudness or bass/treble controls feature is selected.

11 Master volume level

12 SR+
Lights when the SR+ mode is switched on.

13 STREAM DIRECT
Lights when Direct/Pure Direct is selected.

14 Speaker indicators
Indicate the current speaker system, **A** and/or **B**.

15 Listening mode indicators
THX – Lights when a Home THX mode is selected.

ADV. SURROUND – Lights when an Advanced Surround mode has been selected.

STEREO – Lights when the stereo mode is selected.

STANDARD – Lights when a Standard Surround mode is switched on.

16 SLEEP
Lights when the receiver is in sleep mode.

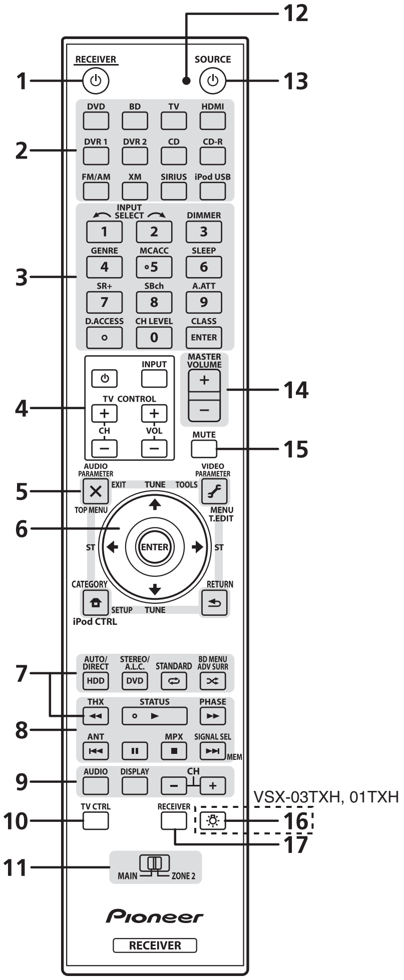
17 Matrix decoding format indicators
DDPRO LOGIC IIx – This lights to indicate DD Pro Logic II / DD Pro Logic IIx decoding.

Neo:6 – When one of the Neo:6 modes of the receiver is on, this lights to indicate Neo:6 processing.

18 Character display
Displays various system information.

19 Input source indicators
Light to indicate the input source you have selected.

[5] Remote control


12
RECEIVER
SOURCE
1
13
DVD
BD
TV
HDMI
2
DVR 1
DVR 2
CD
CD-R
FM/AM
XM
SIRIUS
iPod USB
INPUT SELECT
DIMMER
1
2
3
GENRE
MCACC
SLEEP
4
5
6
3
SR+
SBch
A.ATT
7
8
9
D.ACCESS
CH LEVEL
CLASS
0
ENTER
INPUT
MASTER VOLUME
TV CONTROL
14
4
CH
VOL
MUTE
15
AUDIO PARAMETER
VIDEO PARAMETER
5
EXIT
TUNE
TOOLS
TOP MENU
MENU T.EDIT
6
ST
ENTER
ST
CATEGORY
RETURN
SETUP
TUNE
iPod CTRL
AUTO/DIRECT
STEREO/A.L.C.
STANDARD
BD MENU ADV SURR
7
HDD
DVD
THX
STATUS
PHASE
8
ANT
MPX
SIGNAL SEL
MEM
AUDIO
DISPLAY
CH
9
TV CTRL
RECEIVER
VSX-03TXH, 01TXH
10
16
17
11
MAIN
ZONE 2
Pioneer
RECEIVER

The remote has been conveniently color-coded according to component control using the following system (press the corresponding input source button to access):

- **White** – Receiver controls (see below)
- **Blue** – Other controls

1 RECEIVER⏻
This switches between standby and on for this receiver.

2 Input source buttons
Press to select control of other components.

3 Number buttons and other receiver/component controls
Use the number buttons to directly select a radio frequency or the tracks on a CD, DVD, etc.

ENTER can be used to enter commands for TV or DTV, and also to select a disc in a multi-CD player.

Press **RECEIVER** first to access:

INPUT SELECT – Use to select the input source.

DIMMER – Dims or brightens the display.

GENRE – Automatically selects the most appropriate Advanced Surround mode for the genre of the source currently being played back (this feature is available only when a Pioneer DVD recorder supporting HDMI Control is connected to this receiver via HDMI).

MCACC – Press to switch between MCACC presets.

SLEEP – Use to put the receiver in sleep mode and select the amount of time before sleep.

SR+ – Switches the SR+ mode on/off.

SBch – Use to select the surround/virtual back channel mode.

A.ATT – Attenuates (lowers) the level of an analog input signal to prevent distortion.

CH LEVEL – Press repeatedly to select a channel, then use ⬅/➡ to adjust the level.

Press **FM/AM** first to access:

D.ACCESS – After pressing, you can access a radio station directly using the number buttons.

CLASS – Switches between the three banks (classes) of radio station presets.

4 TV CONTROL buttons
These buttons are dedicated to control the TV assigned to the **TV CTRL** button. Thus if you only have one TV to hook up to this system assign it to the **TV CTRL** input source button. If you have two TVs, assign the main TV to the **TV CTRL** button.

TV⏻ – Use to turn on/off the power of the TV.

INPUT – Use to select the TV input signal.

CH +/– – Use to select channels.

VOL +/– – Use to adjust the volume on your TV.

5 Tuner/component control buttons/SETUP
These button controls can be accessed after you have selected the corresponding input source button (**DVD**, **DVR1**, **TV**, etc.).

Press **RECEIVER** first to access:

AUDIO PARAMETER – Use to access the Audio options.

VIDEO PARAMETER – Use to access the Video options.

SETUP – Use to access the System Setup menu.

RETURN – Press to confirm and exit the current menu screen (also use to return to the previous menu with DVDs or to select closed captioning with DTV).

6 ⬆/⬇/⬅/➡ (TUNE/ST) /ENTER
Use the arrow buttons when setting up your surround sound system and the Audio or Video options.
Also used to control DVD menus/options
and for deck 1 of a double cassette deck player. Use the **TUNE ⬆/⬇** buttons to find radio frequencies and use **ST ⬅/➡** to find preset stations.

7 Receiver controls
Press **RECEIVER** first to access:

AUTO/DIRECT – Press to select Auto Surround or Stream Direct listening.

STEREO/A.L.C. – Switches between the stereo playback mode and the Front Stage Surround Advance mode.

STANDARD – Press for Standard decoding and to switch between the various DD Pro Logic IIx and Neo:6 options.

ADV SURR – Use to switch among the various surround modes.

THX – Press to select a Home THX listening mode.

8 Component control buttons
The main buttons (▶, ■, etc.) are used to control a component after you have selected it using the input source buttons.

The controls above these buttons can be accessed after you have selected the corresponding input source button (for example **DVD**, **DVR1** or **TV**). These buttons also function as described below.

Press **RECEIVER** first to access:

STATUS – Press to check selected receiver settings.

PHASE – Press to switch on/off Phase Control.

SIGNAL SEL – Use to select an input signal.

Press **TV** first to access:

ANT – Use to select the VHF/UHF antennas or Cable TV.

Press **FM/AM** first to access:

MPX – Switches between stereo and mono reception of FM broadcasts. If the signal is weak then switching to mono will improve the sound quality.

9 AUDIO – Changes the audio or channel on DVD discs.
DISPLAY – Switches between named station presets and radio frequencies.

CH +/– – Use to select channels for DVR units.

10 TV CTRL
Use this button to set preset code of your TV's manufacturer when controlling TV.

11 MULTI-ZONE operation selector switch
Switch to perform operations in the main zone and zone 2.

12 Remote control LED
Lights when a command is sent from the remote control.

13 SOURCE⏻
Press to turn on/off other components connected to the receiver.

14 MASTER VOLUME +/–
Use to set the listening volume.

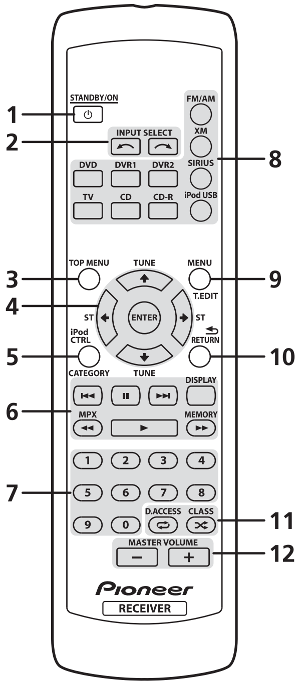
15 MUTE
Mutes the sound or restores the sound if it has been muted (adjusting the volume also restores the sound).

16 Remote control illumination button (03TXH, 01TXH)
Press to turn on/off the illumination of some of the buttons. This function is convenient when operating in dark rooms.

17 RECEIVER
Switches the remote to control the receiver (used to select the white commands above the number buttons (**A.ATT**, etc.)). Also use this button to set up surround sound.

[6] Sub remote control unit (VSX-03TXH only)

The second remote control supplied with this receiver is for use with the MULTI-ZONE listening feature, as explained on page 62. Note that you must connect a separate IR receiver as explained in *Connecting an IR receiver* on page 64 for remote control in your sub room.



1 STANDBY/ON⏻
This switches between standby and on for this receiver.

2 INPUT SELECT
Use to select the input source.

3 TOP MENU
Displays the top menu of an iPod, XM and SIRIUS Radio.

4 ⬆/⬇/⬅/➡ (TUNE/ST) /ENTER
Use the arrow buttons when setting up your surround sound system and the Audio and Video options.
Also used to control iPod, XM and SIRIUS Radio menus.
Use the **TUNE ⬆/⬇** buttons to find radio frequencies and use **ST ⬅/➡** to find preset stations.

5 iPod CTRL/CATEGORY
Press **iPod USB** first to access:

iPod CTRL – Switches between the iPod controls and the receiver controls.

Press **XM** or **SIRIUS** first to access:

CATEGORY – Selects XM or SIRIUS Radio genre search.

6 Component control buttons – These are available for **FM/AM**, **XM**, **SIRIUS** and **iPod USB** and used to control a component after you have selected it using the input source buttons.
DISPLAY – Switches between named station presets and radio frequencies.

Press **FM/AM** first to access:

MPX – Switches between stereo and mono reception of FM broadcasts. If the signal is weak then switching to mono will improve the sound quality.

Press **XM** or **SIRIUS** first to access:

MEMORY – Use to register a song title you are currently listening to.

7 Number buttons
These are available for **FM/AM**, **XM**, **SIRIUS** and **iPod USB** and used to directly select a radio frequency or the tracks.

8 Input source buttons
Press to select control of other components.

9 MENU
Displays the disc menu of DVD-Video discs.

Press **FM/AM**, **XM** or **SIRIUS** first to access:

T.EDIT – Use with ⬅/➡ to memorize and name stations for recall.

10 RETURN
Press to confirm and exit the current menu screen.

11 D.ACCESS/CLASS
Press **FM/AM**, **XM** or **SIRIUS** first to access:

D.ACCESS – After pressing, you can access a radio station directly using the number buttons.

CLASS – Switches between the three banks (classes) of radio station presets.

Press **iPod USB** first to access:

🔁 – Selects the repeat mode of an iPod.

🔀 – Selects the shuffle mode of an iPod.

12 MASTER VOLUME +/–
Use to set the listening volume.

3. BASIC ITEMS FOR SERVICE

3.1 CHECK POINTS AFTER SERVICING

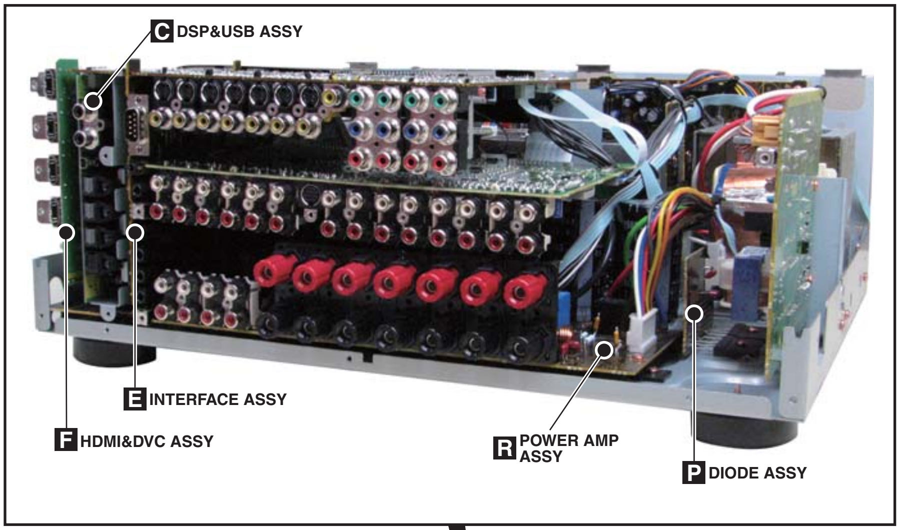
To keep the product quality after servicing, confirm recommended check points shown below.

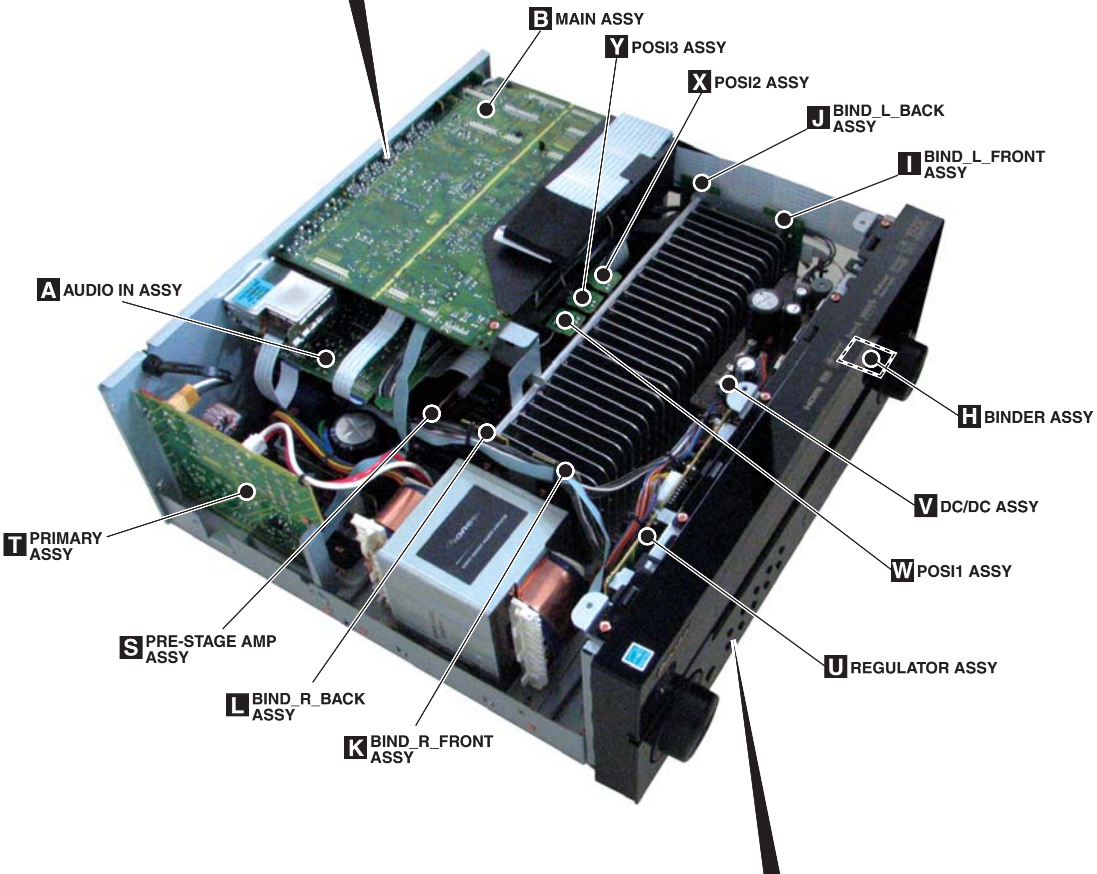
No.	Procedure	Check points
1	Confirm whether the customer complain has been solved. If the customer complain occurs with the particular source, such as Dolby Digital, DTS, AAC, DVD-A and HDMI, input it for the operation check.	The customer complain must not be reappeared. Video, Audio and operations must be normal.
2	Check the analog audio playback. (Make the analog connections with a DVD player.)	Each channel audio and operations must be normal.
3	Check the digital audio playback. (Make the digital connections with a DVD player.)	Each channel audio and operations must be normal.
4	Check surround playback. (Select Surround mode and check the multichannel operations via the DSP circuit.)	Each channel audio and operations must be normal.
5	Check the video outputs. (Connect with a DVD player.)	Video and operations must be normal.
6	Check the sound from headphone output.	Sound must be normal, without noise.
7	Check the appearance of the product.	No scratches or dirt on its appearance after receiving it for service.

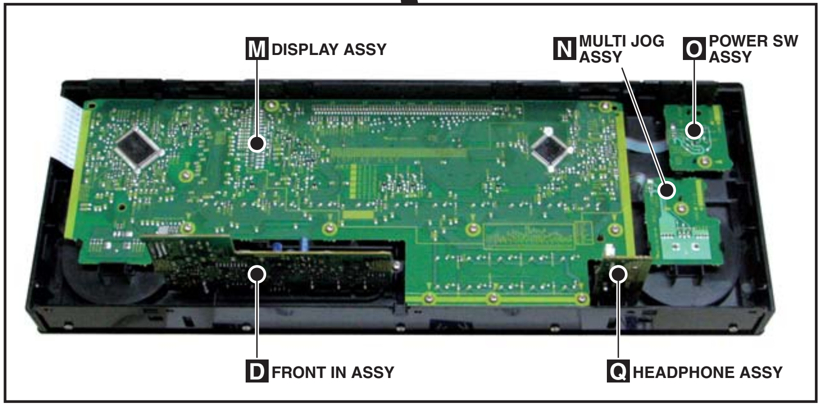
See the table below for the items to be checked regarding video and audio:

Items to be checked regarding video	Item to be checked regarding audio
Block noise	Distortion
Horizontal noise	Noise
Dot noise	Volume too low
Disturbed image (video jumpiness)	Volume too high
Too dark	Volume fluctuating
Too bright	Sound interrupted
Mottled color	

3.2 PCB LOCATIONS


C DSP&USB ASSY
E INTERFACE ASSY
F HDMI&DVC ASSY
R POWER AMP ASSY
P DIODE ASSY


B MAIN ASSY
Y POSI3 ASSY
X POSI2 ASSY
J BIND_L_BACK ASSY
I BIND_L_FRONT ASSY
A AUDIO IN ASSY
H BINDER ASSY
V DC/DC ASSY
W POSI1 ASSY
T PRIMARY ASSY
S PRE-STAGE AMP ASSY
U REGULATOR ASSY
L BIND_R_BACK ASSY
K BIND_R_FRONT ASSY


M DISPLAY ASSY
N MULTI JOG ASSY
O POWER SW ASSY
D FRONT IN ASSY
Q HEADPHONE ASSY

NOTES: ● *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

◆ LIST OF ASSEMBLIES

Mark	Symbol and Description	VSX-03TXH /KUXJ/CA	VSX-9130TXH-K /KUXJ	VSX-01TXH /KUXJ/CA	VSX-1018AH-K /KUXJ
	1..MAIN ASSY	AWK8052	AWK8069	AWK8056	AWK8057
	1..AUDIO IN ASSY	AWK8050	AWK8050	AWK8050	AWK8050
NSP	1..COMPLEX ASSY	AWK8046	AWK8067	AWK8046	AWK8067
	2..DISPLAY ASSY	AWX9117	AWX9216	AWX9117	AWX9216
	2..POWER SW ASSY	AWX9118	AWX9118	AWX9118	AWX9118
	2..MULTI JOG ASSY	AWX9119	AWX9119	AWX9119	AWX9119
	2..BINDER ASSY	AWX9120	AWX9120	AWX9120	AWX9120
	2..FRONT IN ASSY	AWX9121	AWX9121	AWX9121	AWX9121
	2..HP ASSY	AWX9122	AWX9122	AWX9122	AWX9122
	2..PRIMARY ASSY	AWX9123	AWX9123	AWX9123	AWX9123
NSP	1..LOCAL POWER ASSY	AWK8041	AWK8041	AWK8041	AWK8043
	2..DIODE ASSY	AWX8985	AWX8985	AWX8985	AWX8985
	2..REGULATOR ASSY	AWX8986	AWX8986	AWX8986	AWX8986
	2..DC/DC ASSY	AWX8988	AWX8988	AWX8988	AWX8988
	2..PRE-STAGE AMP	AWX8989	AWX8989	AWX8989	AWX8989
	2..INTERFACE ASSY	AWX8990	AWX8990	AWX8990	AWX8993
NSP	1..AMP ASSY	AWK8037	AWK8037	AWK8037	AWK8037
	2..POWER AMP ASSY	AWX8983	AWX8983	AWX8983	AWX8983
	2..POSI1 ASSY	AWX9132	AWX9132	AWX9132	AWX9132
	2..POSI2 ASSY	AWX9133	AWX9133	AWX9133	AWX9133
	2..BIND_L_FRONT ASSY	AWX9217	AWX9217	AWX9217	AWX9217
	2..BIND_L_BACK ASSY	AWX9218	AWX9218	AWX9218	AWX9218
	2..BIND_R_FRONT ASSY	AWX9219	AWX9219	AWX9219	AWX9219
	2..BIND_R_BACK ASSY	AWX9220	AWX9220	AWX9220	AWX9220
	2..POSI3 ASSY	AWX9223	AWX9223	AWX9223	AWX9223
	1..HDMI&DVC ASSY	AWX9170	AWX9170	AWX9233	AWX9233
	1..DSP&USB ASSY	AWX9175	AWX9175	AWX9239	AWX9239
	1..FM/AM TUNER UNIT	AXX7250	AXX7250	AXX7250	AXX7250

3.3 JIGS LIST

[1] Jigs list

Name	Jig No.	Remarks
11P board to board extension jig cable	GGD1576	Diagonosis
19P board to board extension jig cable	GGD1577	Diagonosis
30P board to board extension jig cable	GGD1492	Diagonosis
11P FFC	GGD1578	Diagonosis
RS-232C I/F jig	GGF1348	Update the Flash ROMS
7-pin FFC	VDA1681	Update the Flash ROMS

4. BLOCK DIAGRAM

4.1 OVERALL WIRING DIAGRAM

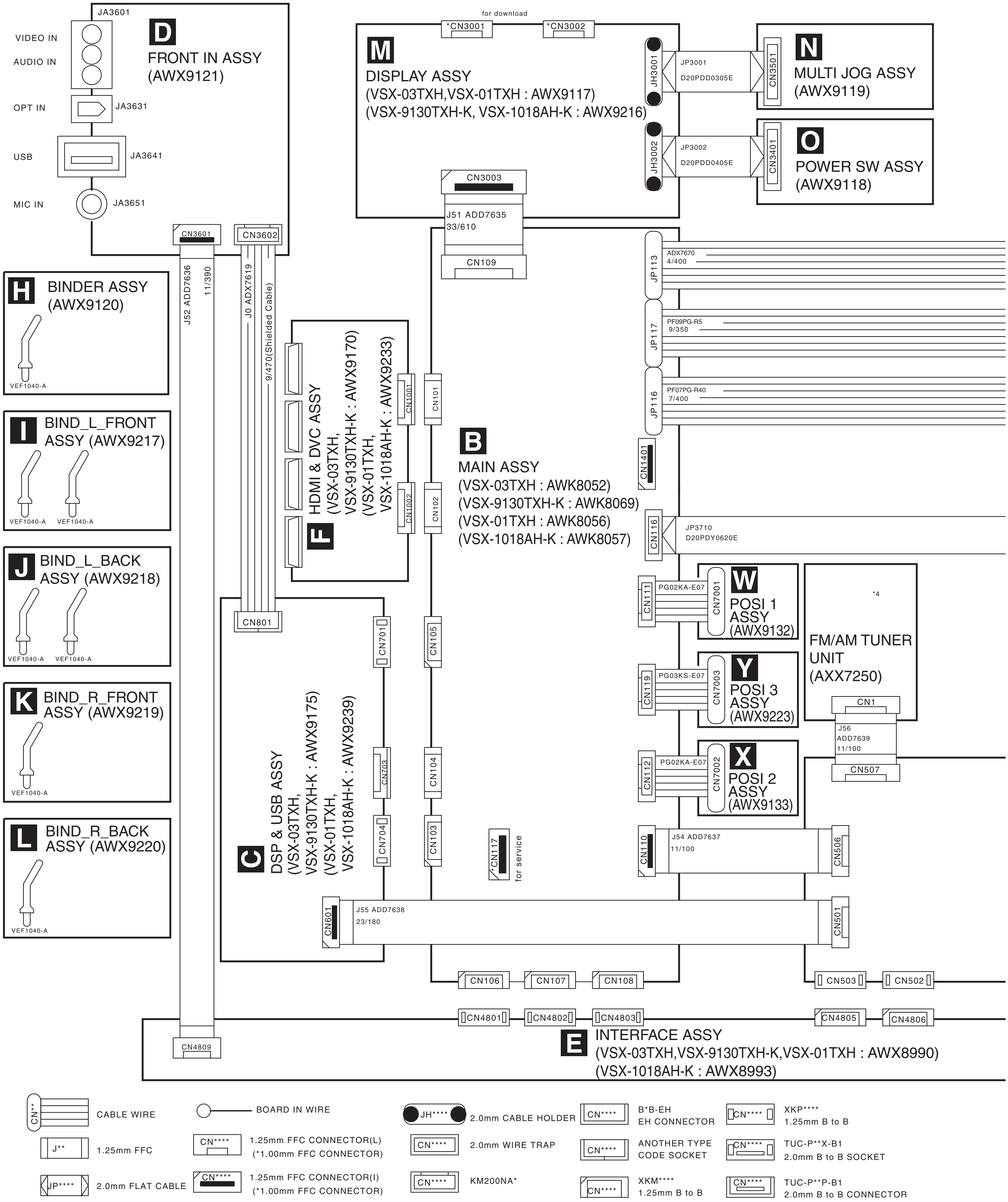
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

⚠

	*1 T1501	*2 AC CORD
KU	ATT7418	VDG1075

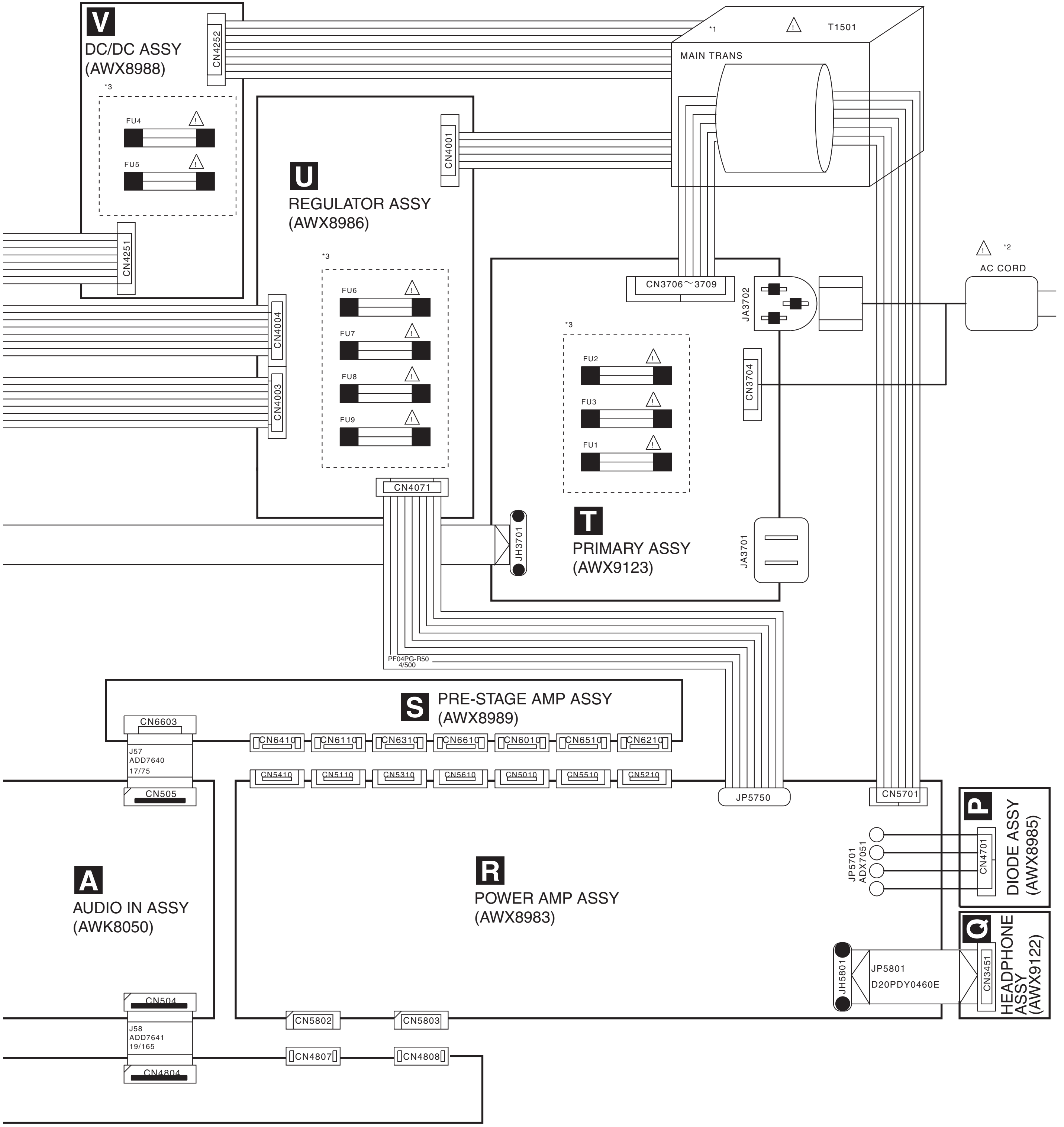
*3 ⚠

	FU1	FU2,3	FU4	FU5	FU6,7	FU8,9
KU	REK1154 (10A/125V)	-	REK1150 (5A/125V)	REK1155 (3.5A/125V)	REK1143 (1.25A/125V)	REK1146 (2.5A/125V)


A
B
C
D
E
F
JA3601
VIDEO IN
AUDIO IN
OPT IN
JA3631
USB
JA3641
MIC IN
JA3651
D
FRONT IN ASSY
(AWX9121)
CN3601
CN3602
J52 ADD7636 11/390
J0 ADX7619 9/470(Shielded Cable)
for download
*CN3001
*CN3002
M
DISPLAY ASSY
(VSX-03TXH,VSX-01TXH : AWX9117)
(VSX-9130TXH-K, VSX-1018AH-K : AWX9216)
JH3001
JP3001
D20PDD0305E
CN3501
N
MULTI JOG ASSY
(AWX9119)
JH3002
JP3002
D20PDD0405E
CN3401
O
POWER SW ASSY
(AWX9118)
CN3003
J51 ADD7635
33/610
CN109
JP113
ADX7670
4/400
JP117
PF09PG-R5
9/350
JP116
PF07PG-R40
7/400
H
BINDER ASSY
(AWX9120)
VEF1040-A
I
BIND_L_FRONT
ASSY (AWX9217)
VEF1040-A
VEF1040-A
J
BIND_L_BACK
ASSY (AWX9218)
VEF1040-A
VEF1040-A
K
BIND_R_FRONT
ASSY (AWX9219)
VEF1040-A
L
BIND_R_BACK
ASSY (AWX9220)
VEF1040-A
F
HDMI & DVC ASSY
(VSX-03TXH,
VSX-9130TXH-K : AWX9170)
(VSX-01TXH,
VSX-1018AH-K : AWX9233)
CN1001
CN1002
CN101
CN102
B
MAIN ASSY
(VSX-03TXH : AWK8052)
(VSX-9130TXH-K : AWK8069)
(VSX-01TXH : AWK8056)
(VSX-1018AH-K : AWK8057)
CN1401
CN116
JP3710
D20PDY0620E
CN111
PG02KA-E07
CN7001
W
POSI 1
ASSY
(AWX9132)
*4
FM/AM TUNER
UNIT
(AXX7250)
CN1
J56
ADD7639
11/100
CN507
CN119
PG03KS-E07
CN7003
Y
POSI 3
ASSY
(AWX9223)
CN112
PG02KA-E07
CN7002
X
POSI 2
ASSY
(AWX9133)
CN801
CN701
CN105
CN703
CN104
CN704
CN103
*CN117
for service
C
DSP & USB ASSY
(VSX-03TXH,
VSX-9130TXH-K : AWX9175)
(VSX-01TXH,
VSX-1018AH-K : AWX9239)
CN110
J54 ADD7637
11/100
CN506
CN601
J55 ADD7638
23/180
CN501
CN106
CN107
CN108
CN503
CN502
CN4801
CN4802
CN4803
CN4805
CN4806
CN4809
E
INTERFACE ASSY
(VSX-03TXH,VSX-9130TXH-K,VSX-01TXH : AWX8990)
(VSX-1018AH-K : AWX8993)
CN**
CABLE WIRE
BOARD IN WIRE
JH****
2.0mm CABLE HOLDER
CN****
B*B-EH
EH CONNECTOR
CN****
XKP****
1.25mm B to B
J**
1.25mm FFC
CN****
1.25mm FFC CONNECTOR(L)
(*1.00mm FFC CONNECTOR)
CN****
2.0mm WIRE TRAP
CN****
ANOTHER TYPE
CODE SOCKET
CN****
TUC-P**X-B1
2.0mm B to B SOCKET
JP****
2.0mm FLAT CABLE
CN****
1.25mm FFC CONNECTOR(I)
(*1.00mm FFC CONNECTOR)
CN****
KM200NA*
CN****
XKM****
1.25mm B to B
CN****
TUC-P**P-B1
2.0mm B to B CONNECTOR

	*4 TUNER MODULE	J56	*5 FAN	*6 D-TERMINAL	J59
KU	AXX7250	ADD7637	-	-	-

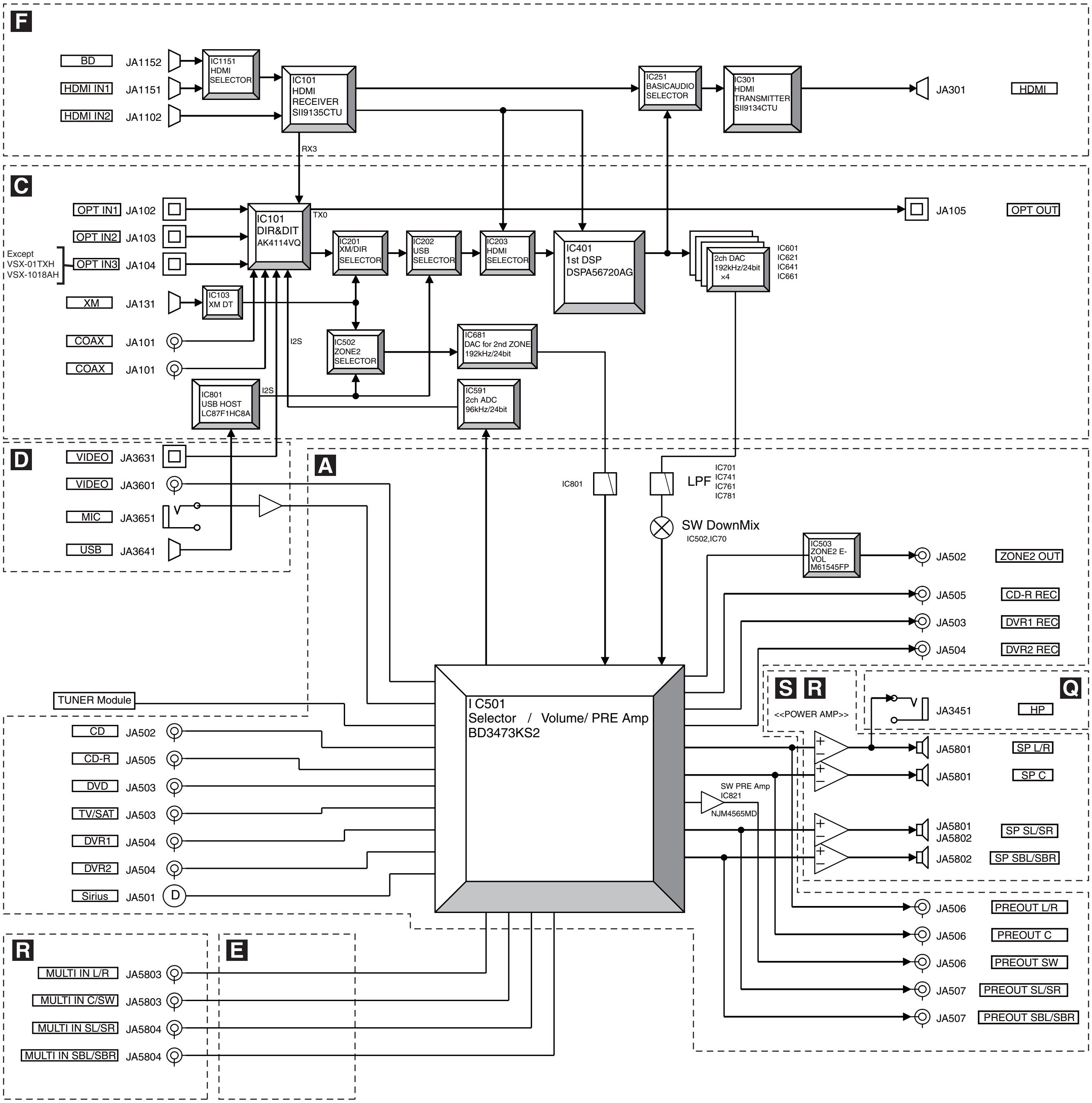
When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
▭ : The power supply is shown with the marked box.


V
DC/DC ASSY
(AWX8988)
CN4252
*3
FU4
FU5
CN4251
U
REGULATOR ASSY
(AWX8986)
CN4001
*3
FU6
FU7
FU8
FU9
CN4004
CN4003
CN4071
PF04PG-R50
4/500
*1
T1501
MAIN TRANS
*2
AC CORD
CN3706～3709
JA3702
CN3704
*3
FU2
FU3
FU1
JH3701
T
PRIMARY ASSY
(AWX9123)
JA3701
S
PRE-STAGE AMP ASSY
(AWX8989)
CN6603
J57
ADD7640
17/75
CN505
CN6410
CN6110
CN6310
CN6610
CN6010
CN6510
CN6210
CN5410
CN5110
CN5310
CN5610
CN5010
CN5510
CN5210
JP5750
CN5701
JP5701
ADX7051
P
DIODE ASSY
(AWX8985)
CN4701
A
AUDIO IN ASSY
(AWK8050)
R
POWER AMP ASSY
(AWX8983)
Q
HEADPHONE ASSY
(AWX9122)
CN3451
JH5801
JP5801
D20PDY0460E
CN504
J58
ADD7641
19/165
CN4804
CN5802
CN5803
CN4807
CN4808

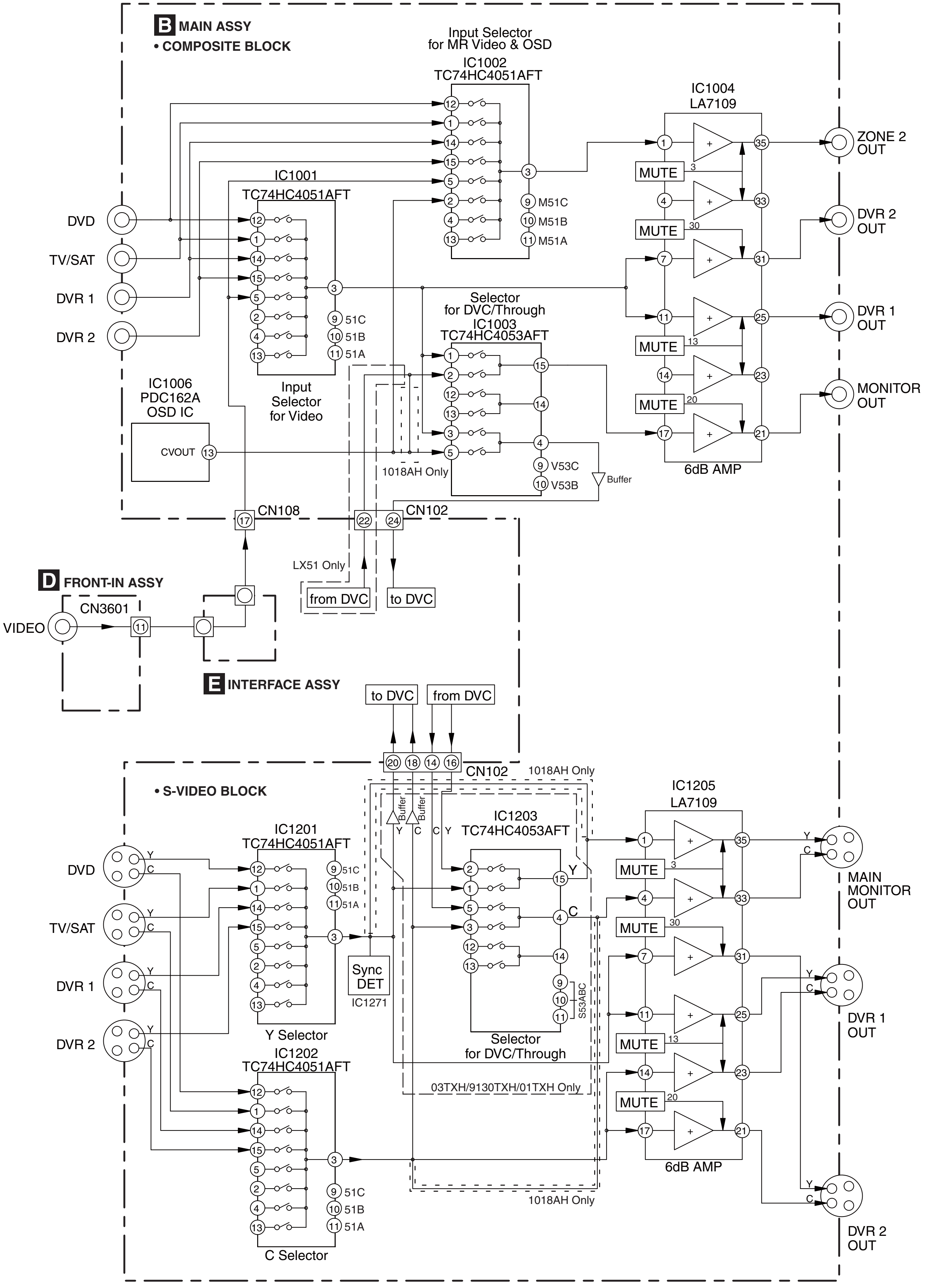
CN**** ANOTHER TYPE B to B SOCKET

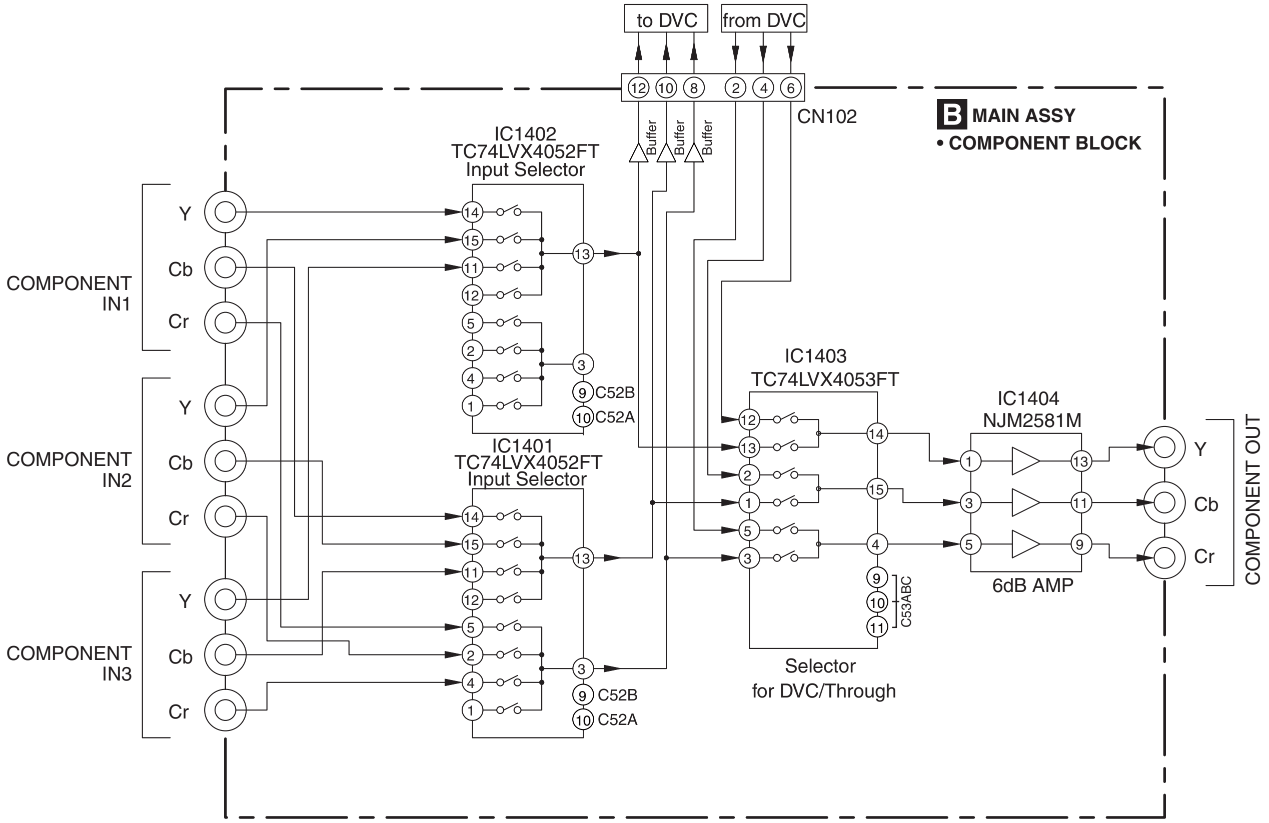
CN**** ANOTHER TYPE B to B CONNECTOR

4.2 BLOCK DIAGRAM FOR AUDIO BLOCK


F
BD
JA1152
HDMI IN1
JA1151
HDMI IN2
JA1102
IC1151
HDMI
SELECTOR
IC101
HDMI
RECEIVER
SII9135CTU
IC251
BASICAUDIO
SELECTOR
IC301
HDMI
TRANSMITTER
SII9134CTU
JA301
HDMI
RX3
C
OPT IN1
JA102
OPT IN2
JA103
Except
VSX-01TXH
VSX-1018AH
OPT IN3
JA104
XM
JA131
COAX
JA101
COAX
JA101
IC101
DIR&DIT
AK4114VQ
TX0
IC201
XM/DIR
SELECTOR
IC202
USB
SELECTOR
IC203
HDMI
SELECTOR
IC401
1st DSP
DSPA56720AG
2ch DAC
192kHz/24bit
×4
IC601
IC621
IC641
IC661
JA105
OPT OUT
IC103
XM DT
I2S
IC502
ZONE2
SELECTOR
IC681
DAC for 2nd ZONE
192kHz/24bit
IC801
USB HOST
LC87F1HC8A
I2S
IC591
2ch ADC
96kHz/24bit
D
VIDEO
JA3631
VIDEO
JA3601
MIC
JA3651
USB
JA3641
A
IC801
LPF
IC701
IC741
IC761
IC781
SW DownMix
IC502,IC70
IC503
ZONE2 E-VOL
M61545FP
JA502
ZONE2 OUT
JA505
CD-R REC
JA503
DVR1 REC
JA504
DVR2 REC
TUNER Module
I C501
Selector / Volume/ PRE Amp
BD3473KS2
S
R
<<POWER AMP>>
Q
JA3451
HP
CD
JA502
CD-R
JA505
DVD
JA503
TV/SAT
JA503
DVR1
JA504
DVR2
JA504
Sirius
JA501
D
JA5801
SP L/R
JA5801
SP C
SW PRE Amp
IC821
NJM4565MD
JA5801
JA5802
SP SL/SR
JA5802
SP SBL/SBR
JA506
PREOUT L/R
JA506
PREOUT C
JA506
PREOUT SW
JA507
PREOUT SL/SR
JA507
PREOUT SBL/SBR
R
MULTI IN L/R
JA5803
MULTI IN C/SW
JA5803
MULTI IN SL/SR
JA5804
MULTI IN SBL/SBR
JA5804
E

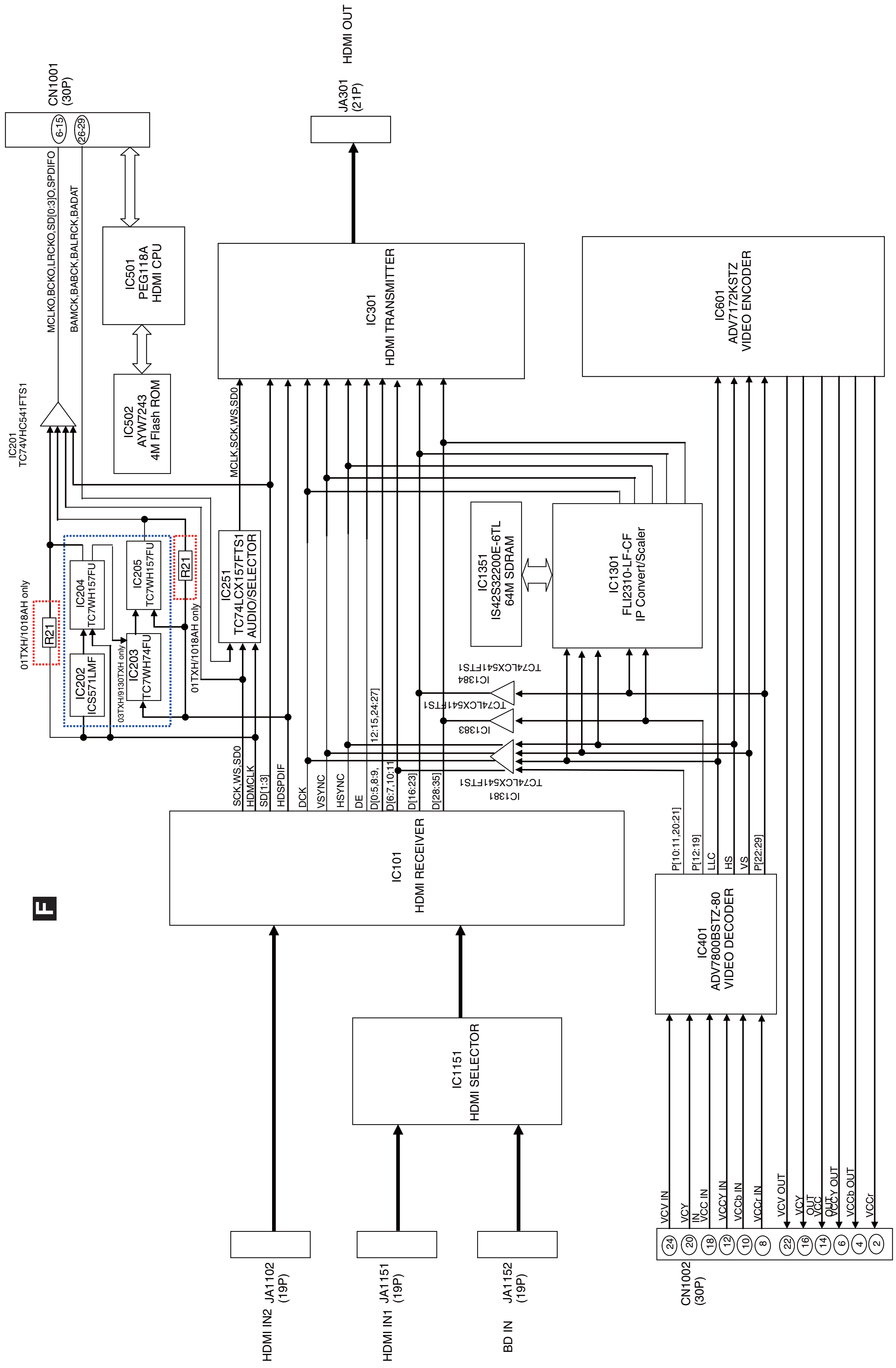
4.3 BLOCK DIAGRAM FOR VIDEO BLOCK


B MAIN ASSY
• COMPOSITE BLOCK
Input Selector
for MR Video & OSD
IC1002
TC74HC4051AFT
IC1004
LA7109
ZONE 2
OUT
MUTE
DVR 2
OUT
DVR 1
OUT
MONITOR
OUT
M51C
M51B
M51A
IC1001
TC74HC4051AFT
DVD
TV/SAT
DVR 1
DVR 2
51C
51B
51A
Selector
for DVC/Through
IC1003
TC74HC4053AFT
IC1006
PDC162A
OSD IC
CVOUT
Input
Selector
for Video
1018AH Only
V53C
V53B
Buffer
6dB AMP
CN108
CN102
LX51 Only
from DVC
to DVC
D FRONT-IN ASSY
CN3601
VIDEO
E INTERFACE ASSY
to DVC
from DVC
CN102
1018AH Only
• S-VIDEO BLOCK
Buffer
Buffer
Y C C Y
IC1201
TC74HC4051AFT
IC1203
TC74HC4053AFT
IC1205
LA7109
DVD
TV/SAT
DVR 1
DVR 2
Y
C
51C
51B
51A
Sync
DET
IC1271
S53ABC
MAIN
MONITOR
OUT
DVR 1
OUT
DVR 2
OUT
Y Selector
IC1202
TC74HC4051AFT
Selector
for DVC/Through
03TXH/9130TXH/01TXH Only
6dB AMP
1018AH Only
C Selector

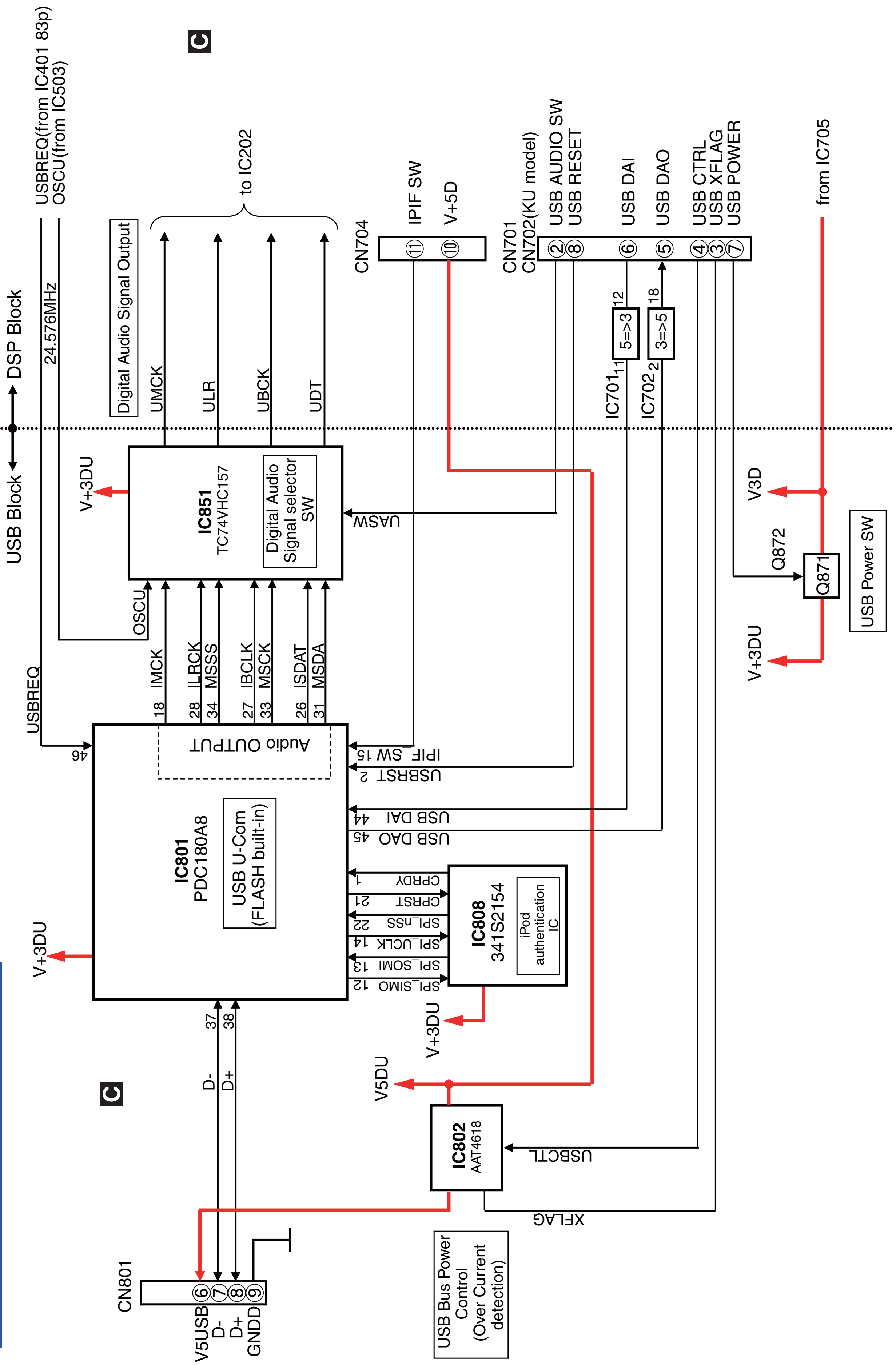


to DVC
from DVC
12 10 8 2 4 6
CN102
B MAIN ASSY
• COMPONENT BLOCK
Buffer
Buffer
Buffer
IC1402
TC74LVX4052FT
Input Selector
14 15 11 12 5 2 4 1
13
3
9 C52B
10 C52A
IC1401
TC74LVX4052FT
Input Selector
14 15 11 12 5 2 4 1
13
3
9 C52B
10 C52A
COMPONENT IN1
COMPONENT IN2
COMPONENT IN3
Y
Cb
Cr
IC1403
TC74LVX4053FT
12 13 2 1 5 3
14 15 4
9 10 11
C53ABC
Selector for DVC/Through
IC1404
NJM2581M
1 3 5
13 11 9
6dB AMP
Y
Cb
Cr
COMPONENT OUT

4.4 BLOCK DIAGRAM FOR HDMI & DVC

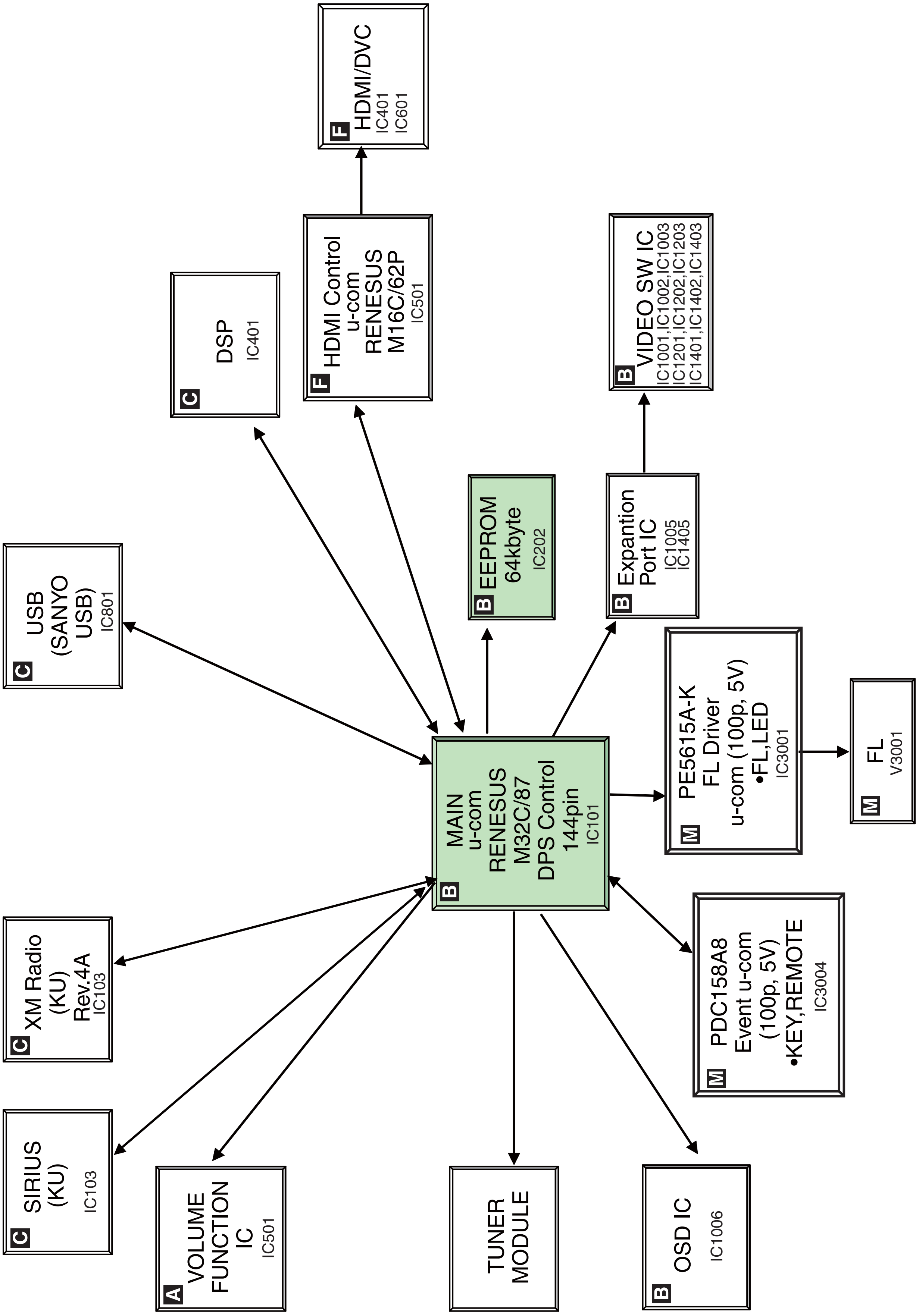

CN1001
(30P)
6-15
26-29
MCLKO,BCKO,LRCKO,SD[0:3]O,SPDIFO
BAMCK,BABCK,BALRCK,BADAT
IC201
TC74VHC541FTS1
IC501
PEG118A
HDMI CPU
IC502
AYW7243
4M Flash ROM
JA301
(21P)
HDMI OUT
IC301
HDMI TRANSMITTER
IC601
ADV7172KSTZ
VIDEO ENCODER
MCLK,SCK,WS,SD0
01TXH/1018AH only
R21
IC204
TC7WH157FU
IC202
ICS571LMF
03TXH/9130TXH only
IC203
TC7WH74FU
IC205
TC7WH157FU
01TXH/1018AH only
IC251
TC74LCX157FTS1
AUDIO/SELECTOR
IC1351
IS42S32200E-6TL
64M SDRAM
IC1301
FLI2310-LF-CF
IP Convert/Scaler
IC1384
TC74LCX541FTS1
IC1383
TC74LCX541FTS1
IC1381
TC74LCX541FTS1
SCK,WS,SD0
HDMCLK
SD[1:3]
HDSPDIF
DCK
VSYNC
HSYNC
DE
D[0:5,8:9,
12:15,24:27]
D[6:7,10:11]
D[16:23]
D[28:35]
P[10:11,20:21]
P[12:19]
LLC
HS
VS
P[22:29]
IC101
HDMI RECEIVER
F
IC401
ADV7800BSTZ-80
VIDEO DECODER
IC1151
HDMI SELECTOR
VCV IN
VCY IN
VCC IN
VCCY IN
VCCb IN
VCCr IN
VCV OUT
VCY OUT
VCC OUT
VCCY OUT
VCCb OUT
VCCr
24
20
18
12
10
8
22
16
14
6
4
2
CN1002
(30P)
JA1102
(19P)
HDMI IN2
JA1151
(19P)
HDMI IN1
JA1152
(19P)
BD IN

4.5 BLOCK DIAGRAM FOR USB BLOCK

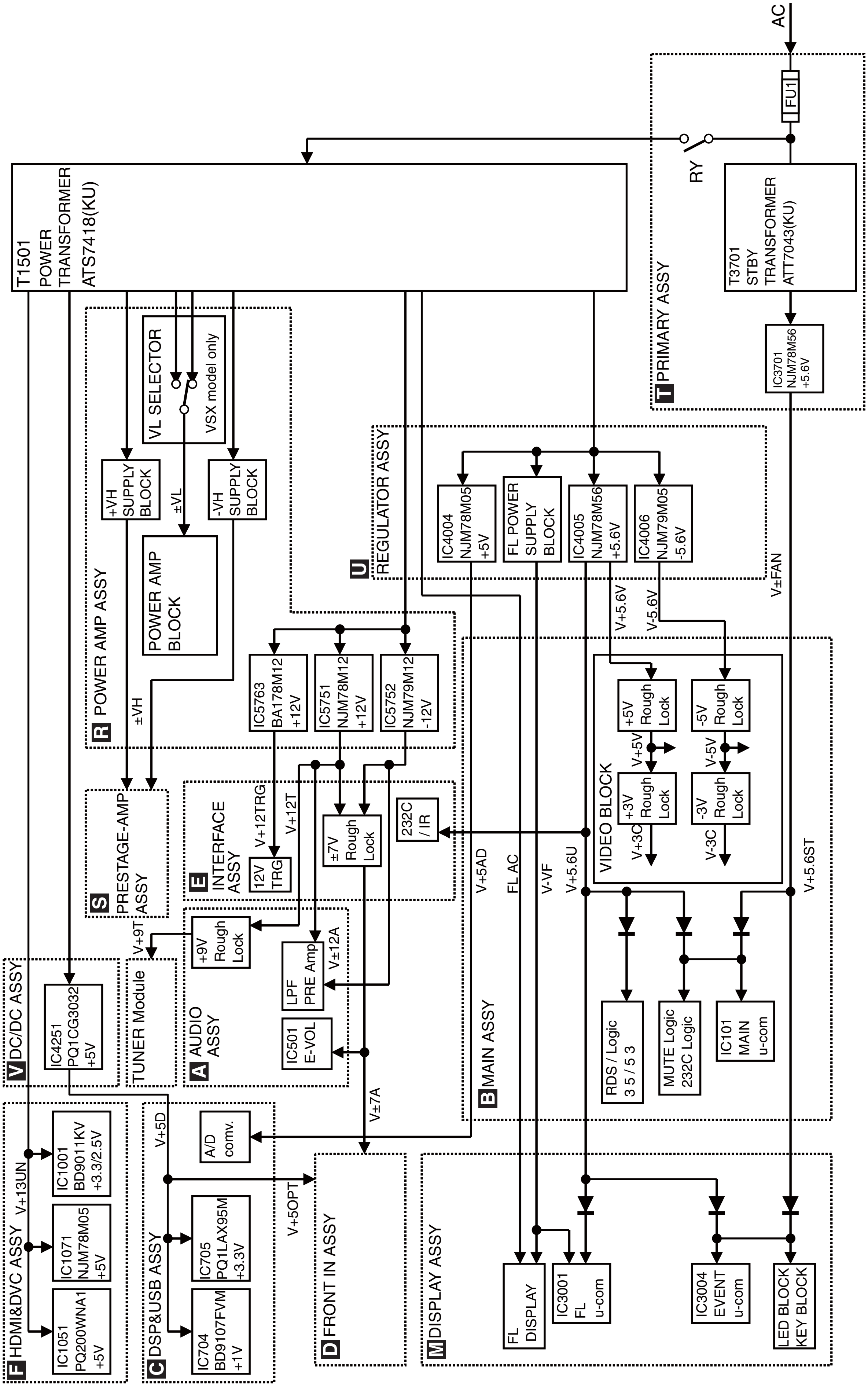

C
USBREQ(from IC401 83p)
OSCU(from IC503)
DSP Block
USB Block
24.576MHz
Digital Audio Signal Output
to IC202
UMCK
ULR
UBCK
UDT
CN704
⑪ IPIF SW
⑩ V+5D
CN701
CN702(KU model)
② USB AUDIO SW
⑧ USB RESET
⑥ USB DAI
⑤ USB DAO
④ USB CTRL
③ USB XFLAG
⑦ USB POWER
from IC705
IC701
11 5=>3 12
IC702
2 3=>5 18
V+3DU
IC851
TC74VHC157
Digital Audio Signal selector SW
UASW
V3D
Q872
Q871
USB Power SW
V+3DU
OSCU
USBREQ
18 IMCK
28 ILRCK
34 MSSS
27 IBCLK
33 MSCK
26 ISDAT
31 MSDA
46
Audio OUTPUT
IPIF_SW 15
USBRST 2
USB DAI 44
USB DAO 45
IC801
PDC180A8
USB U-Com (FLASH built-in)
V+3DU
CPRDY 1
CPRST 21
SPI_nSS 22
SPI_UCLK 14
SPI_SOMI 13
SPI_SIMO 12
IC808
341S2154
iPod authentication IC
V+3DU
37 D-
38 D+
V5DU
C
IC802
AAT4618
USBCTL
XFLAG
CN801
⑥ V5USB
⑦ D-
⑧ D+
⑨ GNDD
USB Bus Power Control (Over Current detection)

USB(iPod) Section Block Diagram

4.6 BLOCK DIAGRAM FOR U-COM BLOCK


F HDMI/DVC IC401 IC601
F HDMI Control u-com RENESUS M16C/62P IC501
C DSP IC401
B VIDEO SW IC IC1001,IC1002,IC1003 IC1201,IC1202,IC1203 IC1401,IC1402,IC1403
B EEPROM 64kbyte IC202
B Expantion Port IC IC1005 IC1405
C USB (SANYO USB) IC801
M PE5615A-K FL Driver u-com (100p, 5V) •FL,LED IC3001
M FL V3001
B MAIN u-com RENESUS M32C/87 DPS Control 144pin IC101
C XM Radio (KU) Rev.4A IC103
M PDC158A8 Event u-com (100p, 5V) •KEY,REMOTE IC3004
C SIRIUS (KU) IC103
A VOLUME FUNCTION IC IC501
TUNER MODULE
B OSD IC IC1006

4.7 BLOCK DIAGRAM FOR POWER SUPPLY BLOCK


AC
FU1
RY
T PRIMARY ASSY
T3701 STBY TRANSFORMER ATT7043(KU)
IC3701 NJM78M56 +5.6V
T1501 POWER TRANSFORMER ATS7418(KU)
R POWER AMP ASSY
VL SELECTOR
VSX model only
+VH SUPPLY BLOCK
-VH SUPPLY BLOCK
±VL
POWER AMP BLOCK
±VH
IC5763 BA178M12 +12V
IC5751 NJM78M12 +12V
IC5752 NJM79M12 -12V
U REGULATOR ASSY
IC4004 NJM78M05 +5V
FL POWER SUPPLY BLOCK
IC4005 NJM78M56 +5.6V
IC4006 NJM79M05 -5.6V
V±FAN
V+5.6V
V-5.6V
S PRESTAGE-AMP ASSY
E INTERFACE ASSY
V+12TRG
V+12T
12V TRG
±7V Rough Lock
232C / IR
V+5AD
FL AC
V-VF
V+5.6U
V+5.6ST
VIDEO BLOCK
+5V Rough Lock
-5V Rough Lock
V+5V
V-5V
+3V Rough Lock
-3V Rough Lock
V+3C
V-3C
V+9T
A AUDIO ASSY
+9V Rough Lock
LPF PRE Amp
V±12A
IC501 E-VOL
TUNER Module
V DC/DC ASSY
IC4251 PQ1CG3032 +5V
B MAIN ASSY
RDS / Logic 3 5 / 5 3
MUTE Logic 232C Logic
IC101 MAIN u-com
V±7A
F HDMI&DVC ASSY
V+13UN
IC1001 BD9011KV +3.3/2.5V
IC1071 NJM78M05 +5V
IC1051 PQ200WNA1 +5V
C DSP&USB ASSY
V+5D
A/D comv.
IC705 PQ1LAX95M +3.3V
IC704 BD9107FVM +1V
V+5OPT
D FRONT IN ASSY
M DISPLAY ASSY
FL DISPLAY
IC3001 FL u-com
IC3004 EVENT u-com
LED BLOCK KEY BLOCK

5. DIAGNOSIS

5.1 DIAGNOSIS FLOWCHART

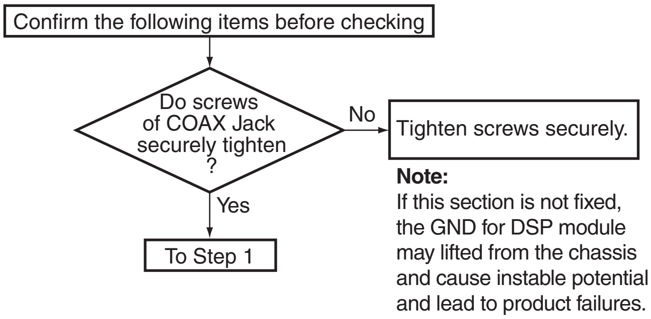
■ Simplified diagnosis

Errors in DSP Assembly (Areas simply and roughly predictable by machine operation only)

- Sound abnormality in Delay
  If sound abnormality does not occur in the Delay OFF state but occurs in the Delay ON state, it is most likely that a failure has occurred in SDRAM (IC301) or LATCH (IC303, IC304) in the 1st DSP Block.
- No sound at analog signal input
  If sound abnormality does not occur with a digital signal input (COAX, OPT) but occurs only with an analog signal input, it is most likely that a failure has occurred in the AD converter (IC591).

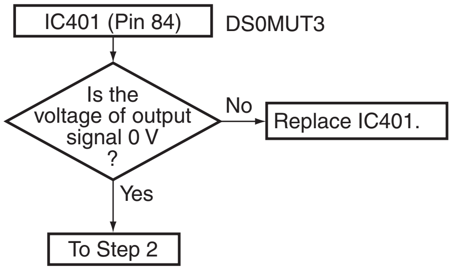
[1] DSP Troubleshooting

Step 0: Preliminary confirmation

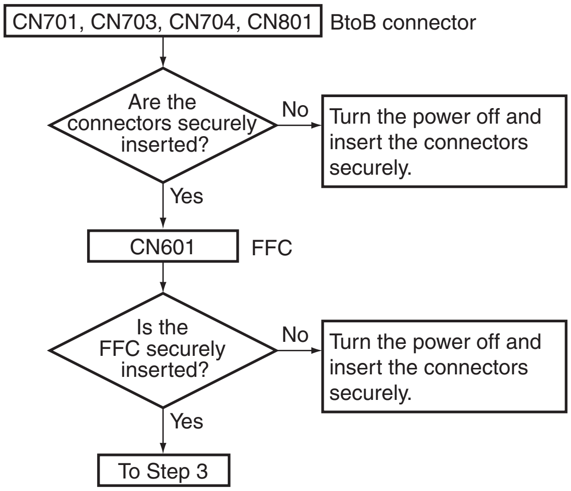

Confirm the following items before checking
Do screws of COAX Jack securely tighten ?
No
Tighten screws securely.
Yes
To Step 1

Note:
If this section is not fixed, the GND for DSP module may lifted from the chassis and cause instable potential and lead to product failures.

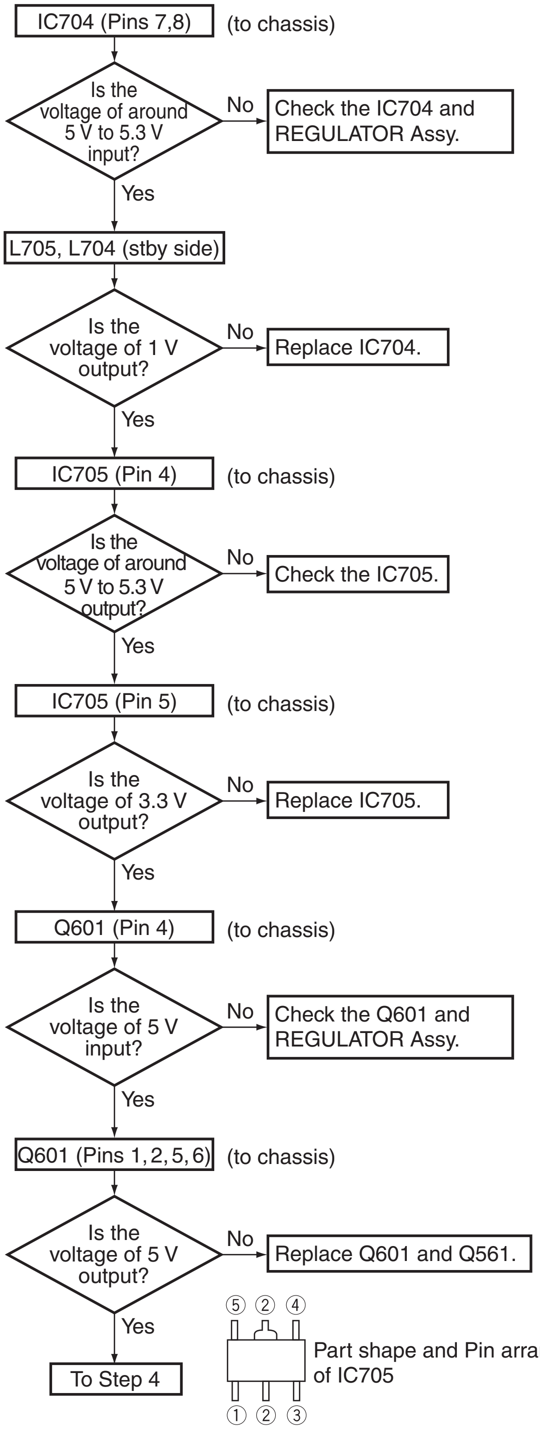
Step 1: MUTE pin


IC401 (Pin 84)
DS0MUT3
Is the voltage of output signal 0 V ?
No
Replace IC401.
Yes
To Step 2

Step 2: BtoB connector and FFC

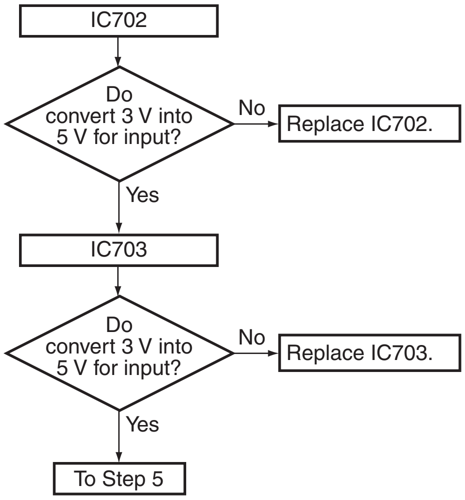

CN701, CN703, CN704, CN801
BtoB connector
Are the connectors securely inserted?
No
Turn the power off and insert the connectors securely.
Yes
CN601
FFC
Is the FFC securely inserted?
No
Turn the power off and insert the connectors securely.
Yes
To Step 3

Step 3: Regulator IC

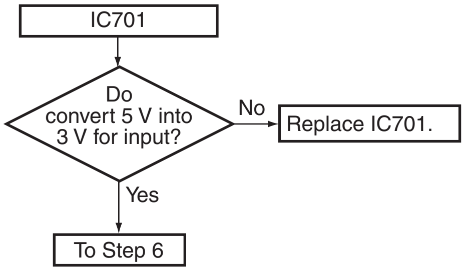

IC704 (Pins 7,8)
(to chassis)
Is the voltage of around 5 V to 5.3 V input?
No
Check the IC704 and REGULATOR Assy.
Yes
L705, L704 (stby side)
Is the voltage of 1 V output?
No
Replace IC704.
Yes
IC705 (Pin 4)
(to chassis)
Is the voltage of around 5 V to 5.3 V output?
No
Check the IC705.
Yes
IC705 (Pin 5)
(to chassis)
Is the voltage of 3.3 V output?
No
Replace IC705.
Yes
Q601 (Pin 4)
(to chassis)
Is the voltage of 5 V input?
No
Check the Q601 and REGULATOR Assy.
Yes
Q601 (Pins 1, 2, 5, 6)
(to chassis)
Is the voltage of 5 V output?
No
Replace Q601 and Q561.
Yes
To Step 4
⑤ ② ④
① ② ③

Part shape and Pin arrangement of IC705

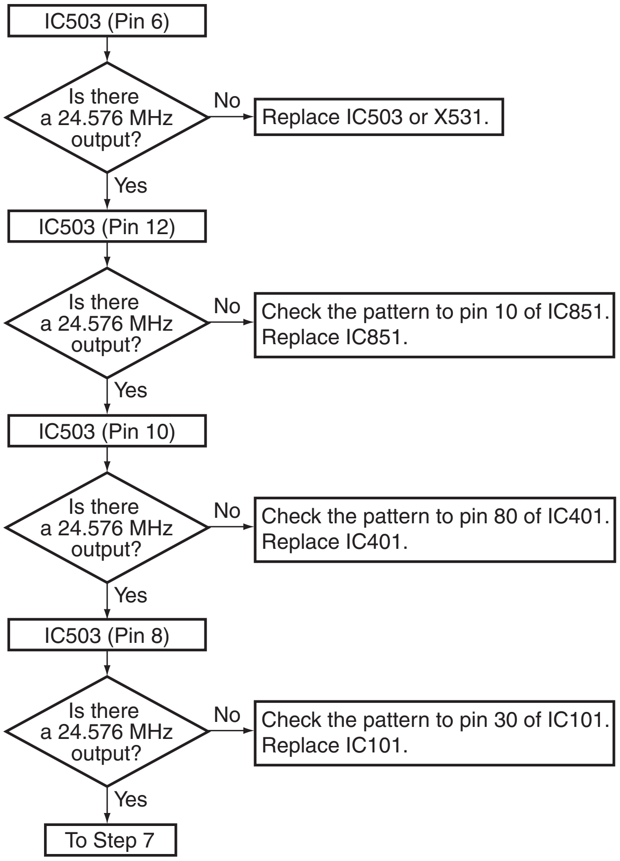
Step 4: 3 V to 5 V conversion


IC702
Do convert 3 V into 5 V for input?
No
Replace IC702.
Yes
IC703
Do convert 3 V into 5 V for input?
No
Replace IC703.
Yes
To Step 5

Step 5: 5 V to 3 V conversion


IC701
Do convert 5 V into 3 V for input?
No
Replace IC701.
Yes
To Step 6

Step 6: X'tal

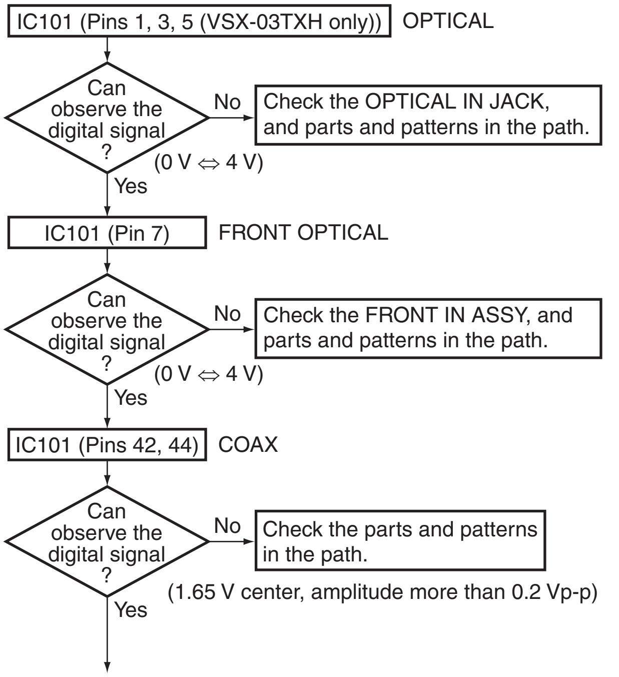

IC503 (Pin 6)
Is there a 24.576 MHz output?
No
Replace IC503 or X531.
Yes
IC503 (Pin 12)
Is there a 24.576 MHz output?
No
Check the pattern to pin 10 of IC851. Replace IC851.
Yes
IC503 (Pin 10)
Is there a 24.576 MHz output?
No
Check the pattern to pin 80 of IC401. Replace IC401.
Yes
IC503 (Pin 8)
Is there a 24.576 MHz output?
No
Check the pattern to pin 30 of IC101. Replace IC101.
Yes
To Step 7

Step 7

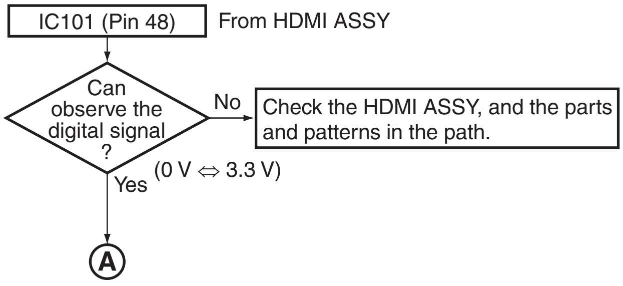
When the COAX or OPT is input, go to Step 7-1.
When the USB is input, go to Step 7-2.
When the HDMI (SPDIF line) is input, go to Step 7-1.
  Used Source
    [dts HD High Resolution Audio], [dts HD LBR],
    [Dolby Digital Plus], [2ch of 48kHz sampling rate or less],
    [Other compression stream]
When the HDMI (I2S line) is input, go to Step 7-3.
  Used Source
    [dts HD Master Audio], [Dolby True HD],
    [PCM or LPCM of 88.2kHz sampling rate or more],
    [LPCM Multi ch]
When the HDMI (SACD) is input, go to Step 7-5.
  Used Source [SACD]

Step 7-1-1: DIR

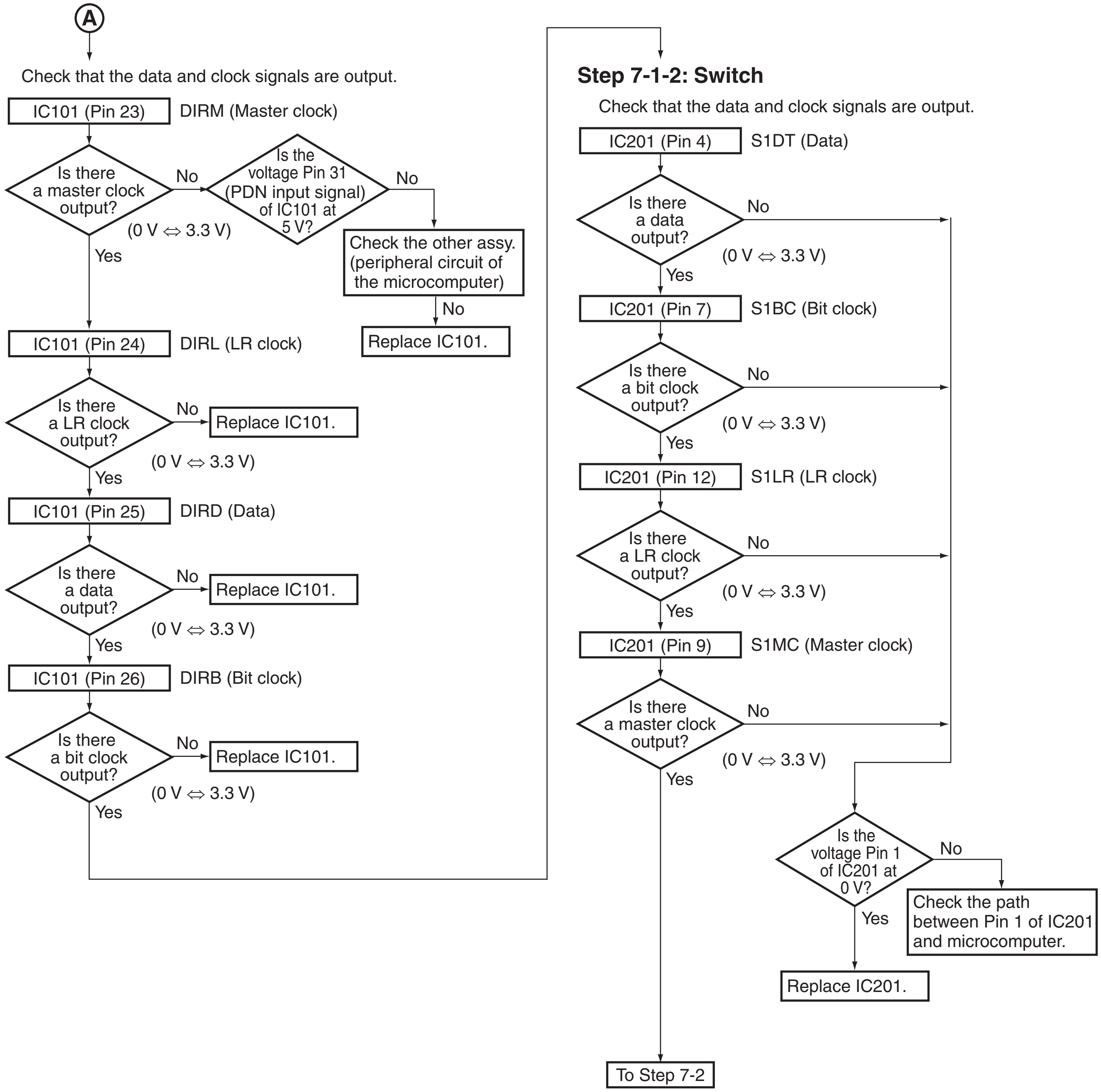
Check that the S/PDIF signal is output.
Check that changes by pulling out and inserting the digital input lines.


IC101 (Pins 1, 3, 5 (VSX-03TXH only))
OPTICAL
Can observe the digital signal ?
No
Check the OPTICAL IN JACK, and parts and patterns in the path.
(0 V ⇔ 4 V)
Yes
IC101 (Pin 7)
FRONT OPTICAL
Can observe the digital signal ?
No
Check the FRONT IN ASSY, and parts and patterns in the path.
(0 V ⇔ 4 V)
Yes
IC101 (Pins 42, 44)
COAX
Can observe the digital signal ?
No
Check the parts and patterns in the path.
(1.65 V center, amplitude more than 0.2 Vp-p)
Yes

Check that it changes in the Playback and Pause modes of the HDMI.

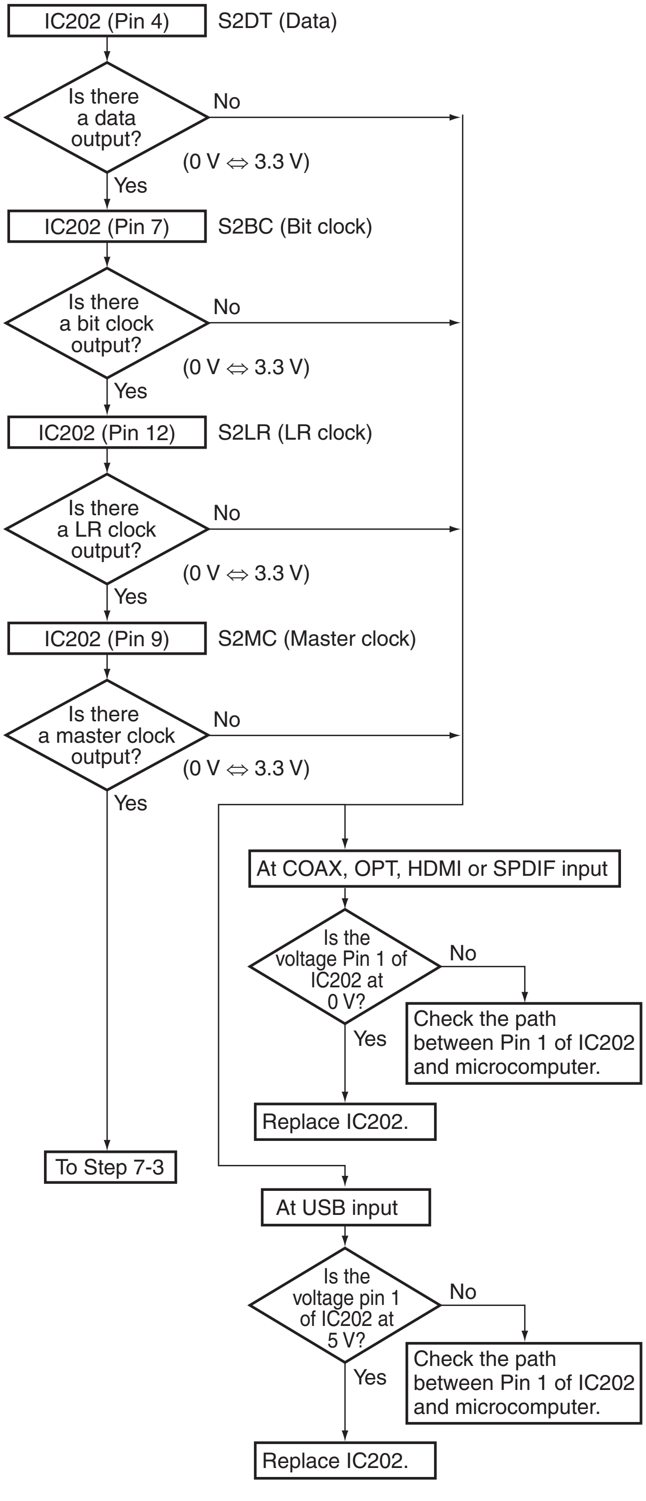

IC101 (Pin 48)
From HDMI ASSY
Can observe the digital signal ?
No
Check the HDMI ASSY, and the parts and patterns in the path.
(0 V ⇔ 3.3 V)
Yes
A

Step 7-1-2: Switch


A
Check that the data and clock signals are output.
IC101 (Pin 23)
DIRM (Master clock)
Is there a master clock output?
(0 V ⇔ 3.3 V)
No
Is the voltage Pin 31 (PDN input signal) of IC101 at 5 V?
No
Check the other assy. (peripheral circuit of the microcomputer)
No
Replace IC101.
Yes
IC101 (Pin 24)
DIRL (LR clock)
Is there a LR clock output?
(0 V ⇔ 3.3 V)
No
Replace IC101.
Yes
IC101 (Pin 25)
DIRD (Data)
Is there a data output?
(0 V ⇔ 3.3 V)
No
Replace IC101.
Yes
IC101 (Pin 26)
DIRB (Bit clock)
Is there a bit clock output?
(0 V ⇔ 3.3 V)
No
Replace IC101.
Yes
Step 7-1-2: Switch
Check that the data and clock signals are output.
IC201 (Pin 4)
S1DT (Data)
Is there a data output?
(0 V ⇔ 3.3 V)
No
Yes
IC201 (Pin 7)
S1BC (Bit clock)
Is there a bit clock output?
(0 V ⇔ 3.3 V)
No
Yes
IC201 (Pin 12)
S1LR (LR clock)
Is there a LR clock output?
(0 V ⇔ 3.3 V)
No
Yes
IC201 (Pin 9)
S1MC (Master clock)
Is there a master clock output?
(0 V ⇔ 3.3 V)
No
Yes
Is the voltage Pin 1 of IC201 at 0 V?
No
Check the path between Pin 1 of IC201 and microcomputer.
Yes
Replace IC201.
To Step 7-2

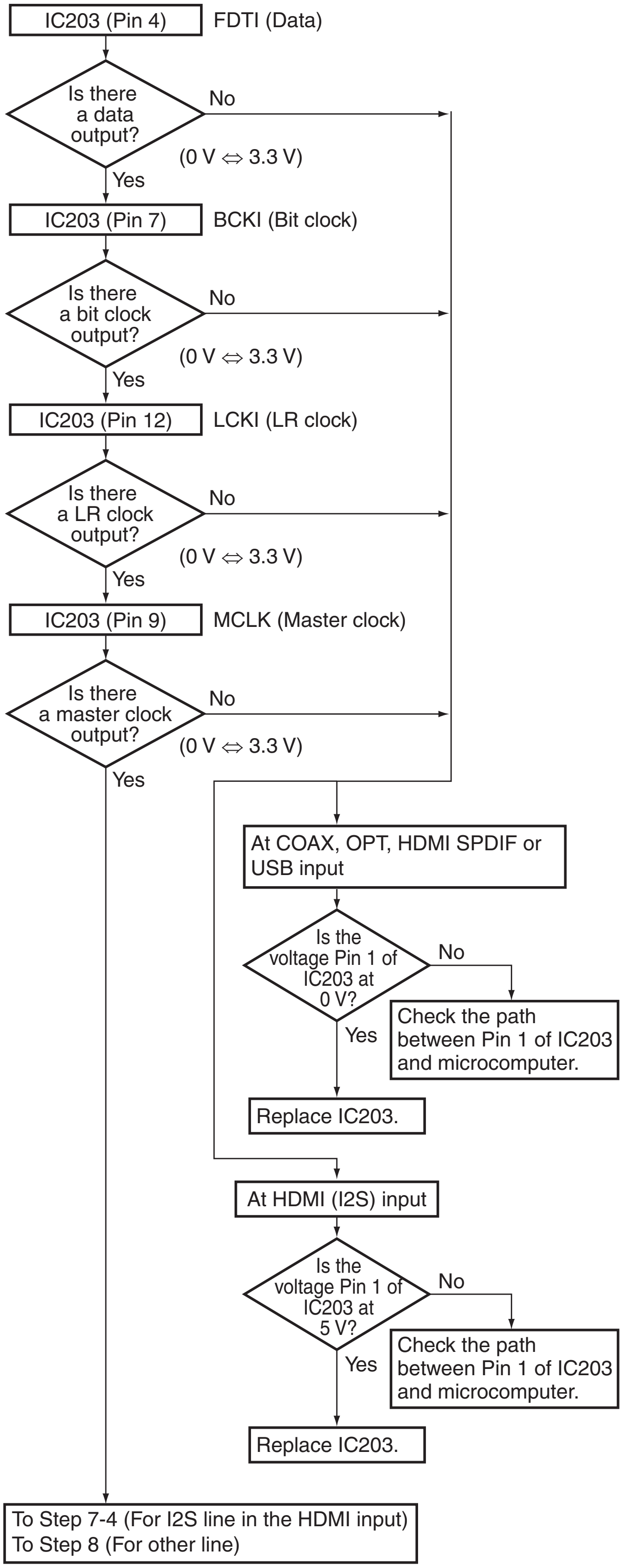
Step 7-2: Switch

Check that the data and clock signals are output.


IC202 (Pin 4)
S2DT (Data)
Is there a data output?
No
(0 V ⇔ 3.3 V)
Yes
IC202 (Pin 7)
S2BC (Bit clock)
Is there a bit clock output?
No
(0 V ⇔ 3.3 V)
Yes
IC202 (Pin 12)
S2LR (LR clock)
Is there a LR clock output?
No
(0 V ⇔ 3.3 V)
Yes
IC202 (Pin 9)
S2MC (Master clock)
Is there a master clock output?
No
(0 V ⇔ 3.3 V)
Yes
At COAX, OPT, HDMI or SPDIF input
Is the voltage Pin 1 of IC202 at 0 V?
No
Check the path between Pin 1 of IC202 and microcomputer.
Yes
Replace IC202.
To Step 7-3
At USB input
Is the voltage pin 1 of IC202 at 5 V?
No
Check the path between Pin 1 of IC202 and microcomputer.
Yes
Replace IC202.

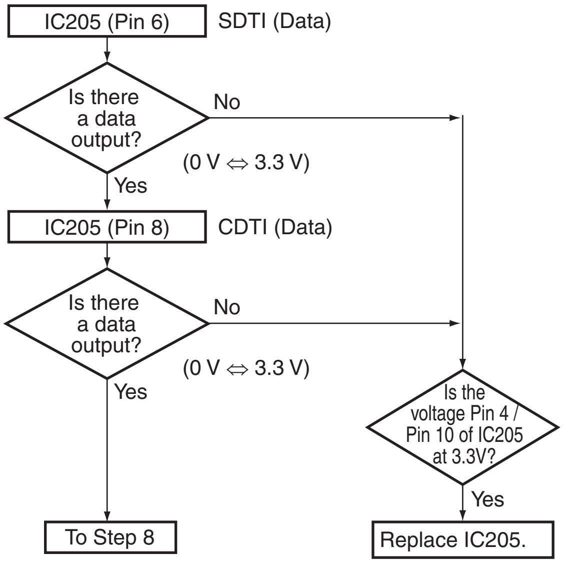
Step 7-3: Switch

Check that the data and clock signals are output.


IC203 (Pin 4)
FDTI (Data)
Is there a data output?
No
(0 V ⇔ 3.3 V)
Yes
IC203 (Pin 7)
BCKI (Bit clock)
Is there a bit clock output?
No
(0 V ⇔ 3.3 V)
Yes
IC203 (Pin 12)
LCKI (LR clock)
Is there a LR clock output?
No
(0 V ⇔ 3.3 V)
Yes
IC203 (Pin 9)
MCLK (Master clock)
Is there a master clock output?
No
(0 V ⇔ 3.3 V)
Yes
At COAX, OPT, HDMI SPDIF or USB input
Is the voltage Pin 1 of IC203 at 0 V?
No
Check the path between Pin 1 of IC203 and microcomputer.
Yes
Replace IC203.
At HDMI (I2S) input
Is the voltage Pin 1 of IC203 at 5 V?
No
Check the path between Pin 1 of IC203 and microcomputer.
Yes
Replace IC203.
To Step 7-4 (For I2S line in the HDMI input)
To Step 8 (For other line)

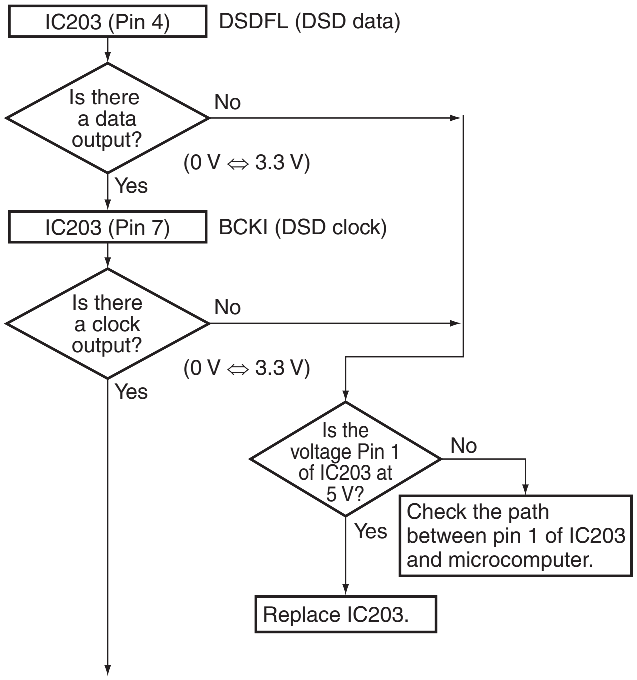
Step 7-4: Switch

Check that the data is output. (Sch and Cch Signal having)

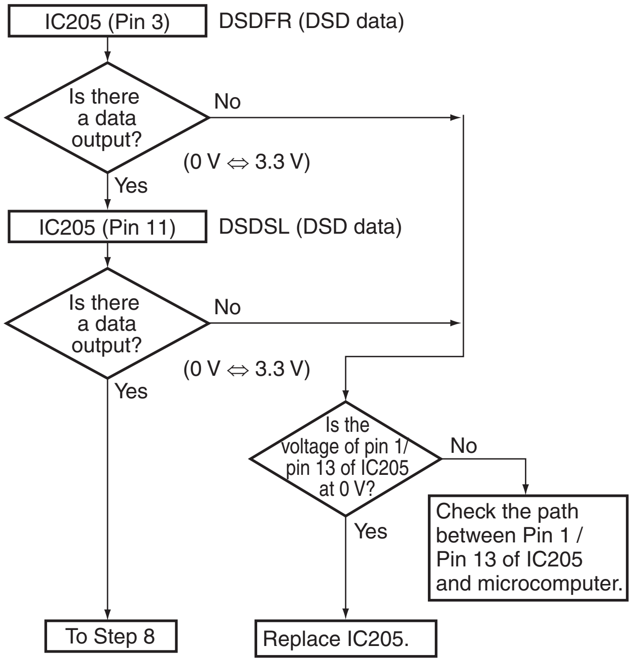

IC205 (Pin 6)
SDTI (Data)
Is there a data output?
No
(0 V ⇔ 3.3 V)
Yes
IC205 (Pin 8)
CDTI (Data)
Is there a data output?
No
(0 V ⇔ 3.3 V)
Yes
Is the voltage Pin 4 / Pin 10 of IC205 at 3.3V?
Yes
To Step 8
Replace IC205.

Step 7-5: Switch (SACD only)

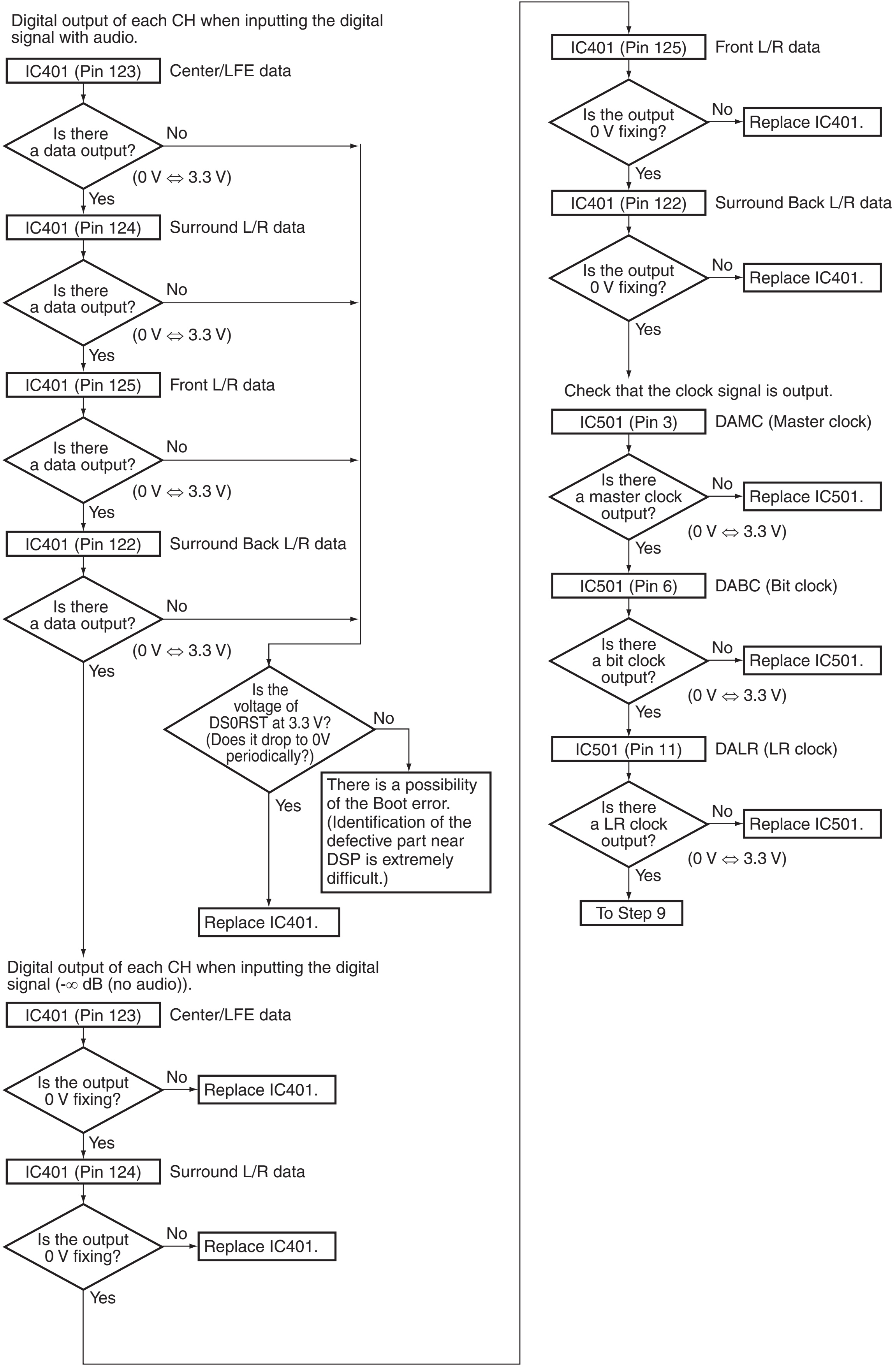
Check that the data and clock signals are output.


IC203 (Pin 4)
DSDFL (DSD data)
Is there a data output?
No
(0 V ⇔ 3.3 V)
Yes
IC203 (Pin 7)
BCKI (DSD clock)
Is there a clock output?
No
(0 V ⇔ 3.3 V)
Yes
Is the voltage Pin 1 of IC203 at 5 V?
No
Check the path between pin 1 of IC203 and microcomputer.
Yes
Replace IC203.

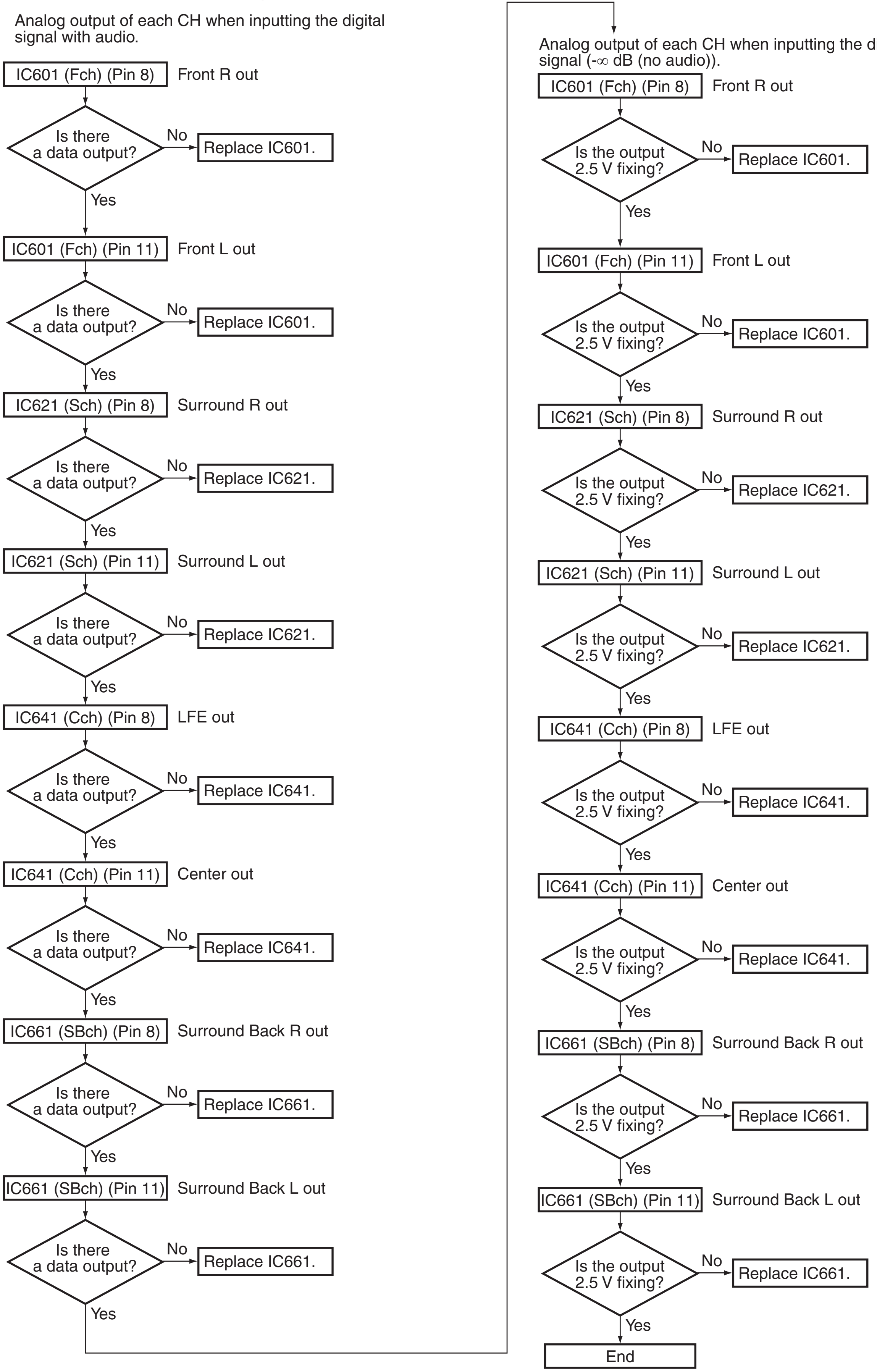
Check that the data signal is output.


IC205 (Pin 3)
DSDFR (DSD data)
Is there a data output?
No
(0 V ⇔ 3.3 V)
Yes
IC205 (Pin 11)
DSDSL (DSD data)
Is there a data output?
No
(0 V ⇔ 3.3 V)
Yes
Is the voltage of pin 1/ pin 13 of IC205 at 0 V?
No
Check the path between Pin 1 / Pin 13 of IC205 and microcomputer.
Yes
To Step 8
Replace IC205.

Step 8: DSP output (digital)


Digital output of each CH when inputting the digital signal with audio.
IC401 (Pin 123)
Center/LFE data
Is there a data output?
No
(0 V ⇔ 3.3 V)
Yes
IC401 (Pin 124)
Surround L/R data
Is there a data output?
No
(0 V ⇔ 3.3 V)
Yes
IC401 (Pin 125)
Front L/R data
Is there a data output?
No
(0 V ⇔ 3.3 V)
Yes
IC401 (Pin 122)
Surround Back L/R data
Is there a data output?
No
(0 V ⇔ 3.3 V)
Yes
Is the voltage of DS0RST at 3.3 V? (Does it drop to 0V periodically?)
No
There is a possibility of the Boot error. (Identification of the defective part near DSP is extremely difficult.)
Yes
Replace IC401.
Digital output of each CH when inputting the digital signal (-∞ dB (no audio)).
IC401 (Pin 123)
Center/LFE data
Is the output 0 V fixing?
No
Replace IC401.
Yes
IC401 (Pin 124)
Surround L/R data
Is the output 0 V fixing?
No
Replace IC401.
Yes
IC401 (Pin 125)
Front L/R data
Is the output 0 V fixing?
No
Replace IC401.
Yes
IC401 (Pin 122)
Surround Back L/R data
Is the output 0 V fixing?
No
Replace IC401.
Yes
Check that the clock signal is output.
IC501 (Pin 3)
DAMC (Master clock)
Is there a master clock output?
No
Replace IC501.
(0 V ⇔ 3.3 V)
Yes
IC501 (Pin 6)
DABC (Bit clock)
Is there a bit clock output?
No
Replace IC501.
(0 V ⇔ 3.3 V)
Yes
IC501 (Pin 11)
DALR (LR clock)
Is there a LR clock output?
No
Replace IC501.
(0 V ⇔ 3.3 V)
Yes
To Step 9

Step 9: DAC output (analog)



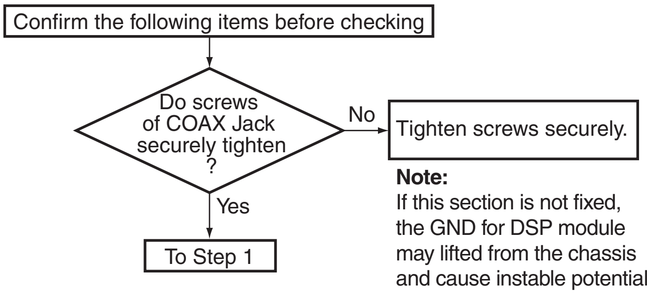
Analog output of each CH when inputting the digital signal with audio.

Analog output of each CH when inputting the digital signal (-∞ dB (no audio)).

IC601 (Fch) (Pin 8)
Front R out
Is there a data output?
No
Replace IC601.
Yes
IC601 (Fch) (Pin 11)
Front L out
Is there a data output?
No
Replace IC601.
Yes
IC621 (Sch) (Pin 8)
Surround R out
Is there a data output?
No
Replace IC621.
Yes
IC621 (Sch) (Pin 11)
Surround L out
Is there a data output?
No
Replace IC621.
Yes
IC641 (Cch) (Pin 8)
LFE out
Is there a data output?
No
Replace IC641.
Yes
IC641 (Cch) (Pin 11)
Center out
Is there a data output?
No
Replace IC641.
Yes
IC661 (SBch) (Pin 8)
Surround Back R out
Is there a data output?
No
Replace IC661.
Yes
IC661 (SBch) (Pin 11)
Surround Back L out
Is there a data output?
No
Replace IC661.
Yes
IC601 (Fch) (Pin 8)
Front R out
Is the output 2.5 V fixing?
No
Replace IC601.
Yes
IC601 (Fch) (Pin 11)
Front L out
Is the output 2.5 V fixing?
No
Replace IC601.
Yes
IC621 (Sch) (Pin 8)
Surround R out
Is the output 2.5 V fixing?
No
Replace IC621.
Yes
IC621 (Sch) (Pin 11)
Surround L out
Is the output 2.5 V fixing?
No
Replace IC621.
Yes
IC641 (Cch) (Pin 8)
LFE out
Is the output 2.5 V fixing?
No
Replace IC641.
Yes
IC641 (Cch) (Pin 11)
Center out
Is the output 2.5 V fixing?
No
Replace IC641.
Yes
IC661 (SBch) (Pin 8)
Surround Back R out
Is the output 2.5 V fixing?
No
Replace IC661.
Yes
IC661 (SBch) (Pin 11)
Surround Back L out
Is the output 2.5 V fixing?
No
Replace IC661.
Yes
End

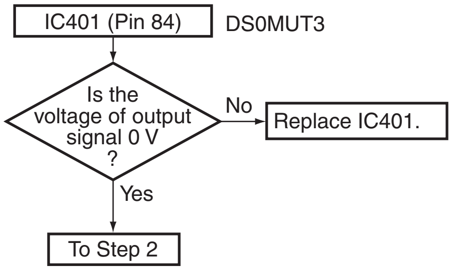
[2] DSP Troubleshooting in the XM mode

Step 0: Preliminary confirmation

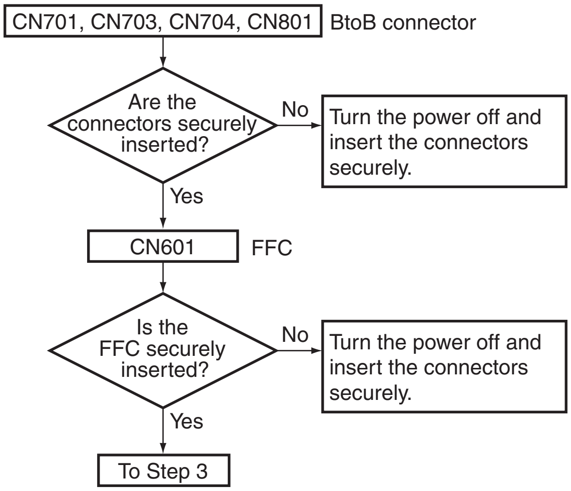

Confirm the following items before checking
Do screws of COAX Jack securely tighten ?
No
Tighten screws securely.
Yes
To Step 1

Note:
If this section is not fixed, the GND for DSP module may lifted from the chassis and cause instable potential and lead to product failures.

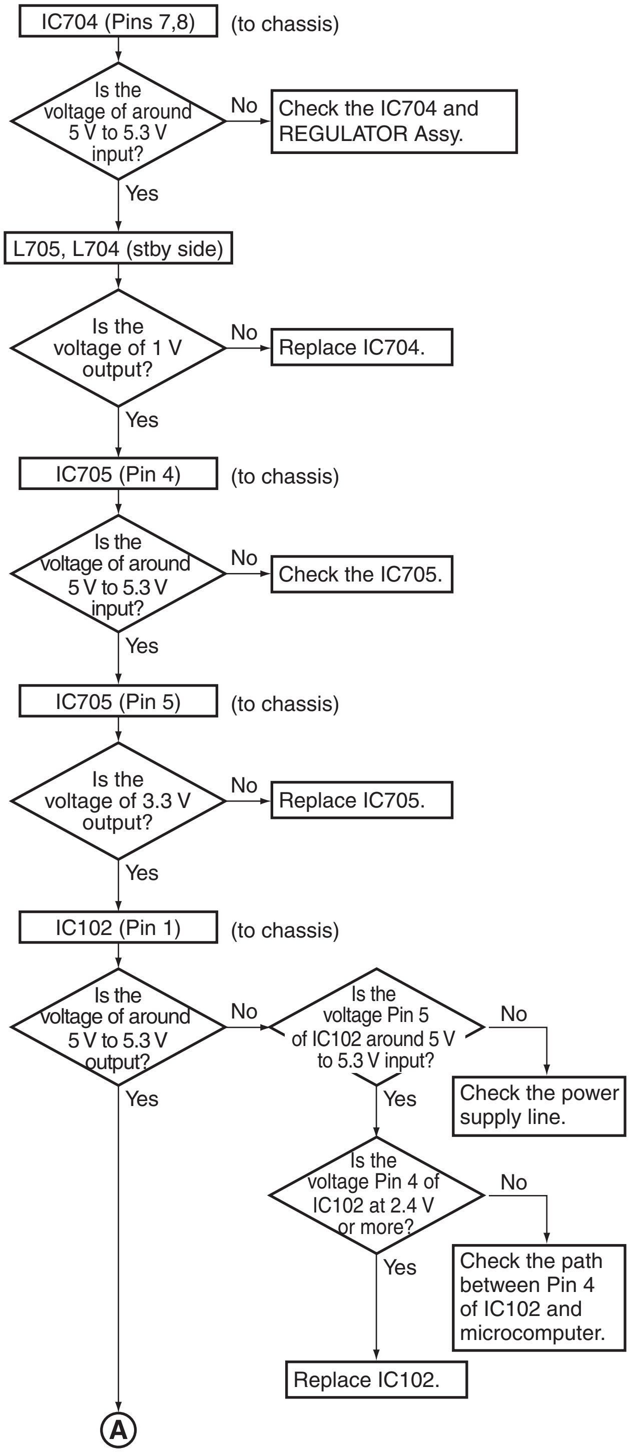
Step 1: MUTE pin

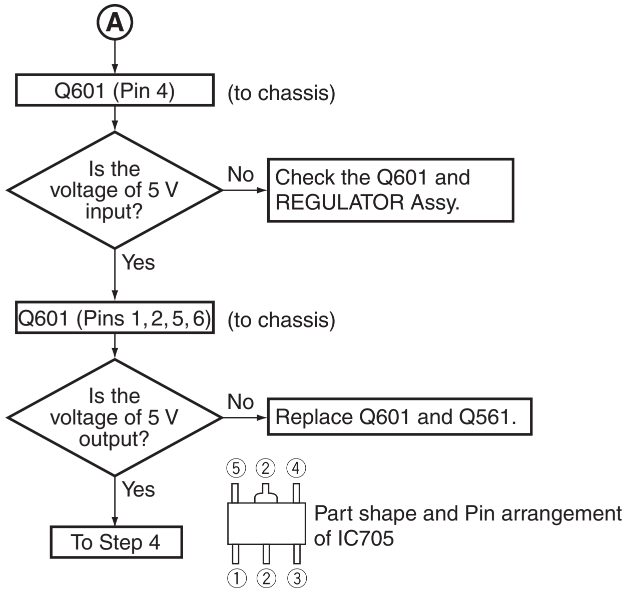

IC401 (Pin 84)
DS0MUT3
Is the voltage of output signal 0 V ?
No
Replace IC401.
Yes
To Step 2

Step 2: BtoB connector and FFC


CN701, CN703, CN704, CN801
BtoB connector
Are the connectors securely inserted?
No
Turn the power off and insert the connectors securely.
Yes
CN601
FFC
Is the FFC securely inserted?
No
Turn the power off and insert the connectors securely.
Yes
To Step 3

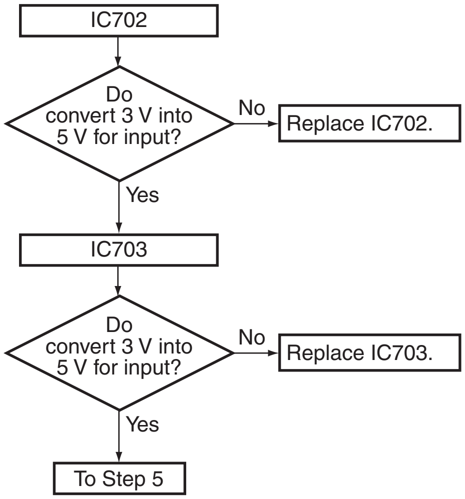
Step 3: Regulator IC


IC704 (Pins 7,8)
(to chassis)
Is the voltage of around 5 V to 5.3 V input?
No
Check the IC704 and REGULATOR Assy.
Yes
L705, L704 (stby side)
Is the voltage of 1 V output?
No
Replace IC704.
Yes
IC705 (Pin 4)
(to chassis)
Is the voltage of around 5 V to 5.3 V input?
No
Check the IC705.
Yes
IC705 (Pin 5)
(to chassis)
Is the voltage of 3.3 V output?
No
Replace IC705.
Yes
IC102 (Pin 1)
(to chassis)
Is the voltage of around 5 V to 5.3 V output?
No
Is the voltage Pin 5 of IC102 around 5 V to 5.3 V input?
No
Check the power supply line.
Yes
Is the voltage Pin 4 of IC102 at 2.4 V or more?
No
Check the path between Pin 4 of IC102 and microcomputer.
Yes
Replace IC102.
Yes
A

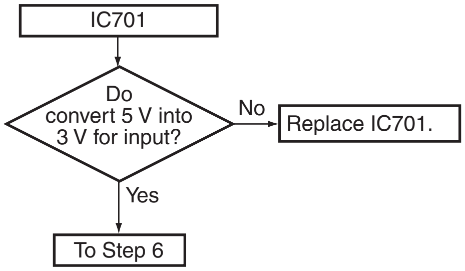

A
Q601 (Pin 4)
(to chassis)
Is the voltage of 5 V input?
No
Check the Q601 and REGULATOR Assy.
Yes
Q601 (Pins 1, 2, 5, 6)
(to chassis)
Is the voltage of 5 V output?
No
Replace Q601 and Q561.
Yes
To Step 4
⑤ ② ④
① ② ③

Part shape and Pin arrangement of IC705

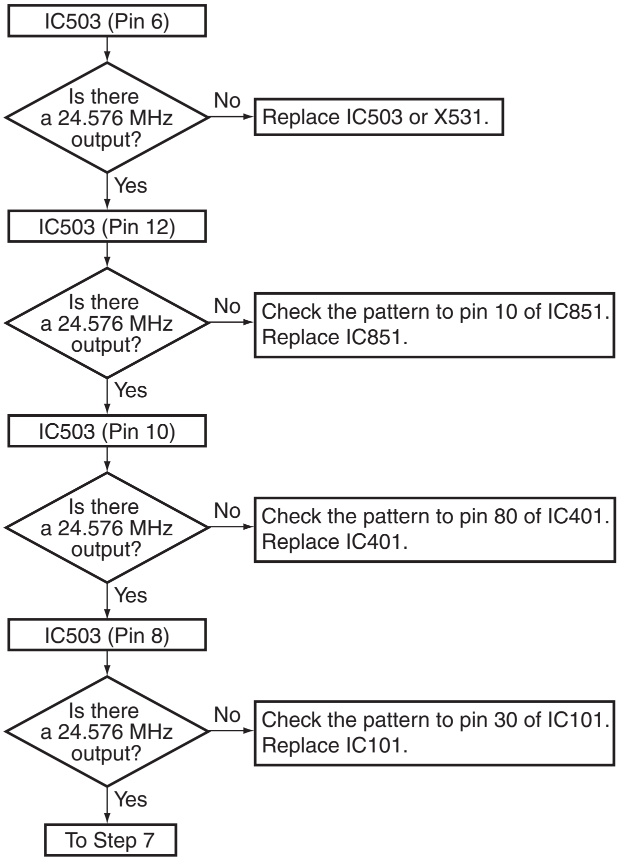
Step 4: 3 V to 5 V conversion


IC702
Do convert 3 V into 5 V for input?
No
Replace IC702.
Yes
IC703
Do convert 3 V into 5 V for input?
No
Replace IC703.
Yes
To Step 5

Step 5: 5 V to 3 V conversion

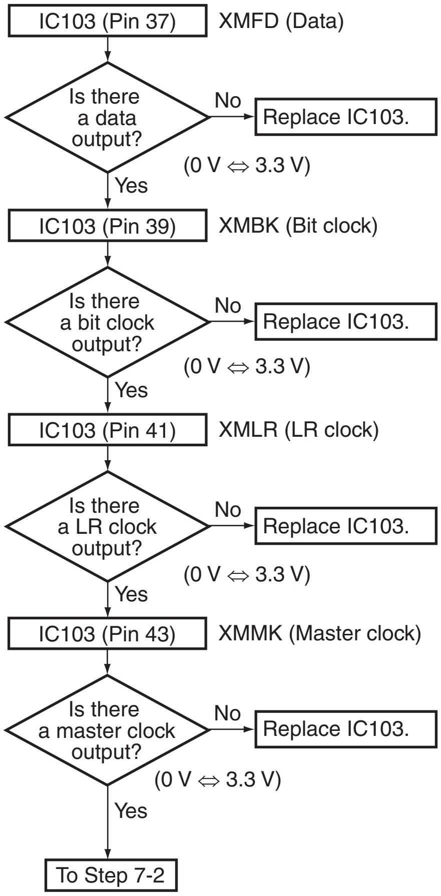

IC701
Do convert 5 V into 3 V for input?
No
Replace IC701.
Yes
To Step 6

Step 6: X'tal


IC503 (Pin 6)
Is there a 24.576 MHz output?
No
Replace IC503 or X531.
Yes
IC503 (Pin 12)
Is there a 24.576 MHz output?
No
Check the pattern to pin 10 of IC851.
Replace IC851.
Yes
IC503 (Pin 10)
Is there a 24.576 MHz output?
No
Check the pattern to pin 80 of IC401.
Replace IC401.
Yes
IC503 (Pin 8)
Is there a 24.576 MHz output?
No
Check the pattern to pin 30 of IC101.
Replace IC101.
Yes
To Step 7

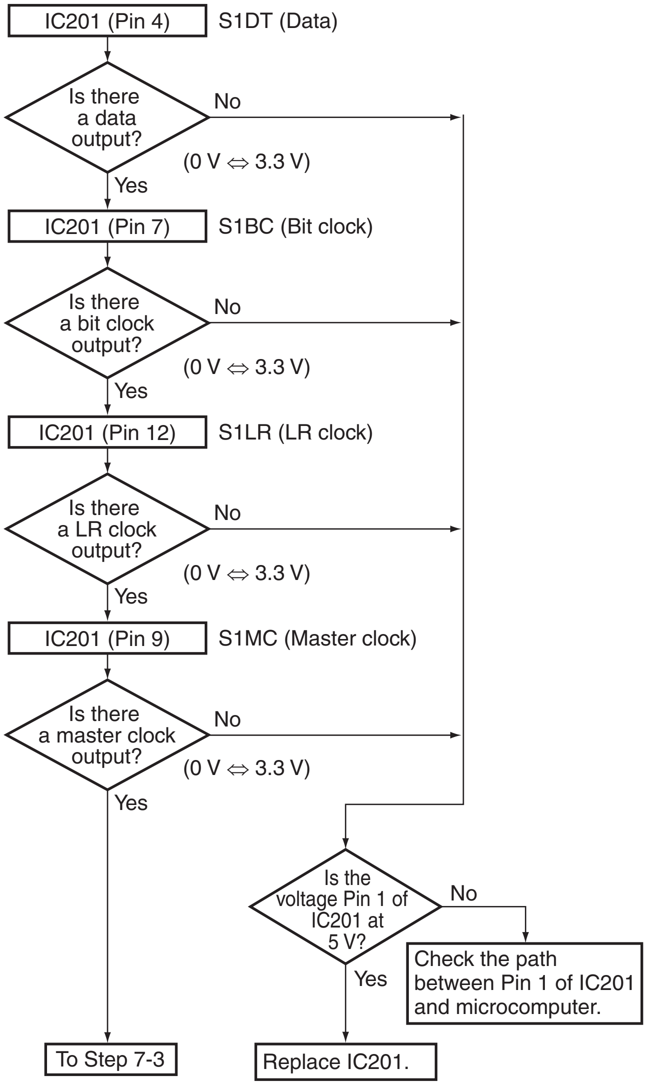
Step 7-1: XM/DT

Check that the data and clock signals are output.


IC103 (Pin 37)
XMFD (Data)
Is there a data output?
No
Replace IC103.
(0 V ⇔ 3.3 V)
Yes
IC103 (Pin 39)
XMBK (Bit clock)
Is there a bit clock output?
No
Replace IC103.
(0 V ⇔ 3.3 V)
Yes
IC103 (Pin 41)
XMLR (LR clock)
Is there a LR clock output?
No
Replace IC103.
(0 V ⇔ 3.3 V)
Yes
IC103 (Pin 43)
XMMK (Master clock)
Is there a master clock output?
No
Replace IC103.
(0 V ⇔ 3.3 V)
Yes
To Step 7-2

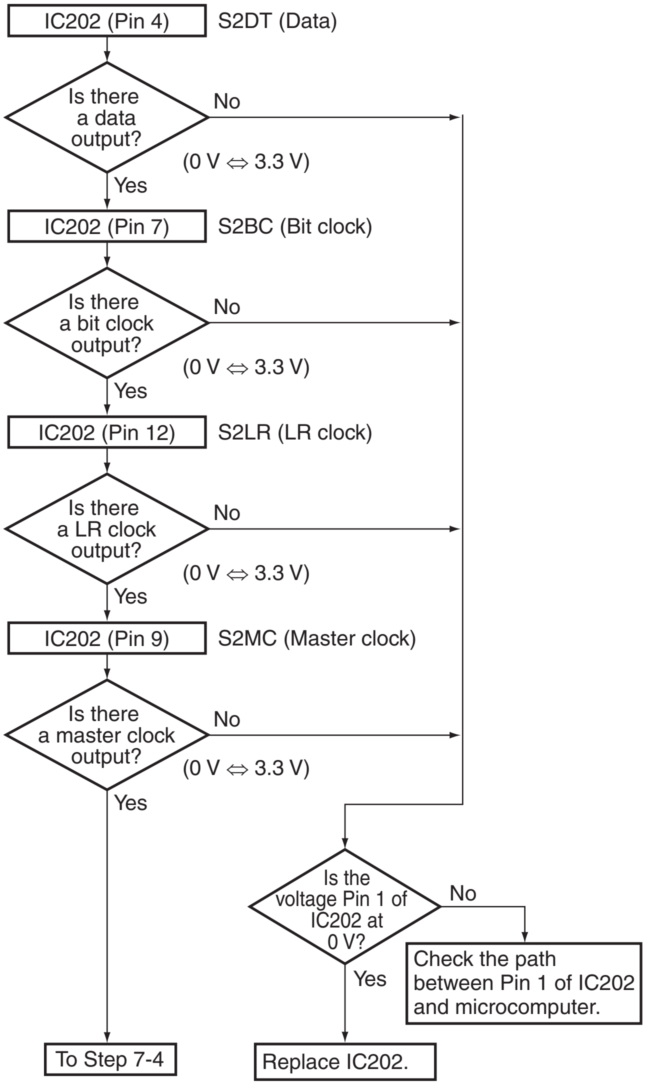
Step 7-2: Switch

Check that the data and clock signals are output.


IC201 (Pin 4)
S1DT (Data)
Is there a data output?
No
(0 V ⇔ 3.3 V)
Yes
IC201 (Pin 7)
S1BC (Bit clock)
Is there a bit clock output?
No
(0 V ⇔ 3.3 V)
Yes
IC201 (Pin 12)
S1LR (LR clock)
Is there a LR clock output?
No
(0 V ⇔ 3.3 V)
Yes
IC201 (Pin 9)
S1MC (Master clock)
Is there a master clock output?
No
(0 V ⇔ 3.3 V)
Yes
Is the voltage Pin 1 of IC201 at 5 V?
No
Check the path between Pin 1 of IC201 and microcomputer.
Yes
Replace IC201.
To Step 7-3

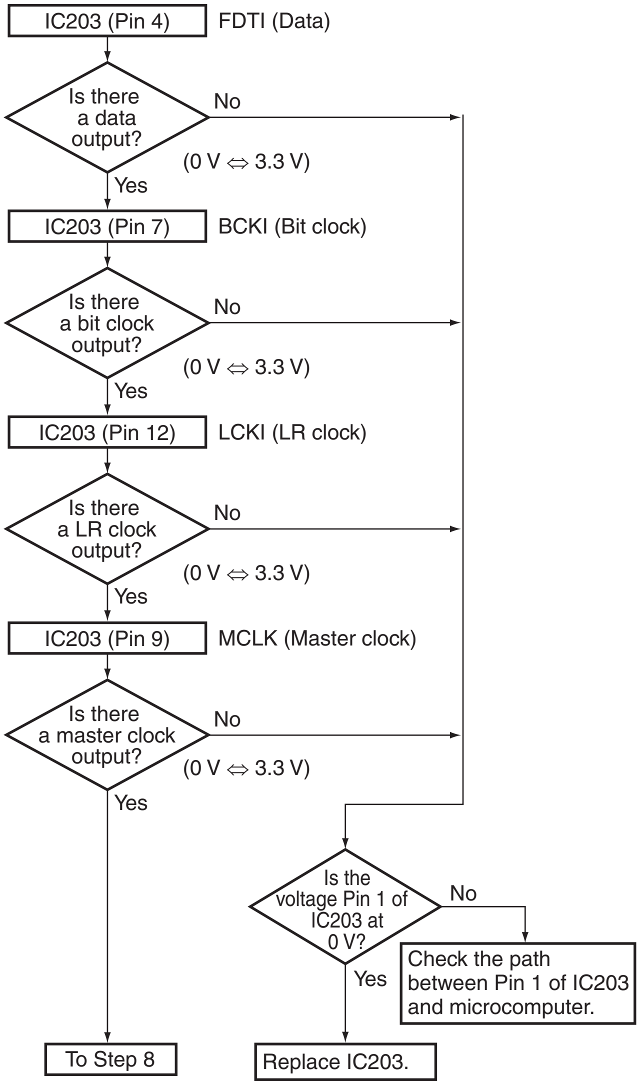
Step 7-3: Switch

Check that the data and clock signals are output.


IC202 (Pin 4)
S2DT (Data)
Is there a data output?
No
(0 V ⇔ 3.3 V)
Yes
IC202 (Pin 7)
S2BC (Bit clock)
Is there a bit clock output?
No
(0 V ⇔ 3.3 V)
Yes
IC202 (Pin 12)
S2LR (LR clock)
Is there a LR clock output?
No
(0 V ⇔ 3.3 V)
Yes
IC202 (Pin 9)
S2MC (Master clock)
Is there a master clock output?
No
(0 V ⇔ 3.3 V)
Yes
Is the voltage Pin 1 of IC202 at 0 V?
No
Yes
Check the path between Pin 1 of IC202 and microcomputer.
To Step 7-4
Replace IC202.

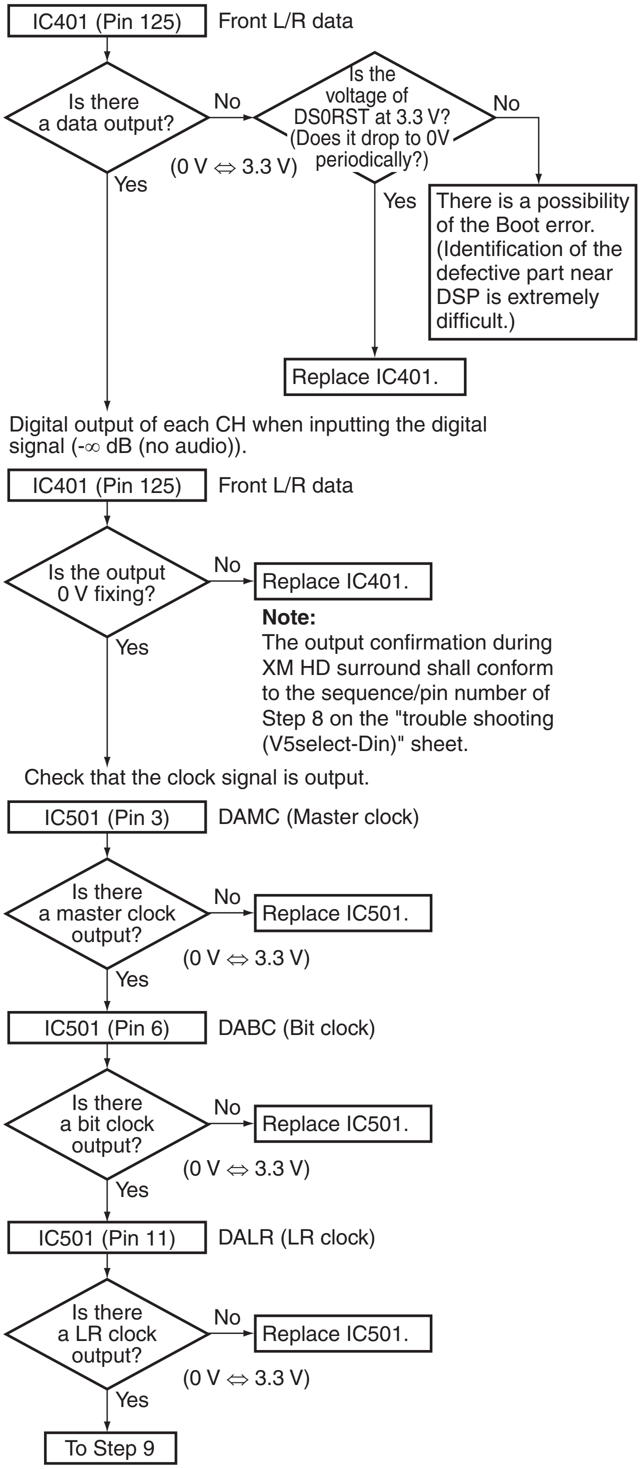
Step 7-4: Switch

Check that the data and clock signals are output.


IC203 (Pin 4)
FDTI (Data)
Is there a data output?
No
(0 V ⇔ 3.3 V)
Yes
IC203 (Pin 7)
BCKI (Bit clock)
Is there a bit clock output?
No
(0 V ⇔ 3.3 V)
Yes
IC203 (Pin 12)
LCKI (LR clock)
Is there a LR clock output?
No
(0 V ⇔ 3.3 V)
Yes
IC203 (Pin 9)
MCLK (Master clock)
Is there a master clock output?
No
(0 V ⇔ 3.3 V)
Yes
Is the voltage Pin 1 of IC203 at 0 V?
No
Yes
Check the path between Pin 1 of IC203 and microcomputer.
To Step 8
Replace IC203.

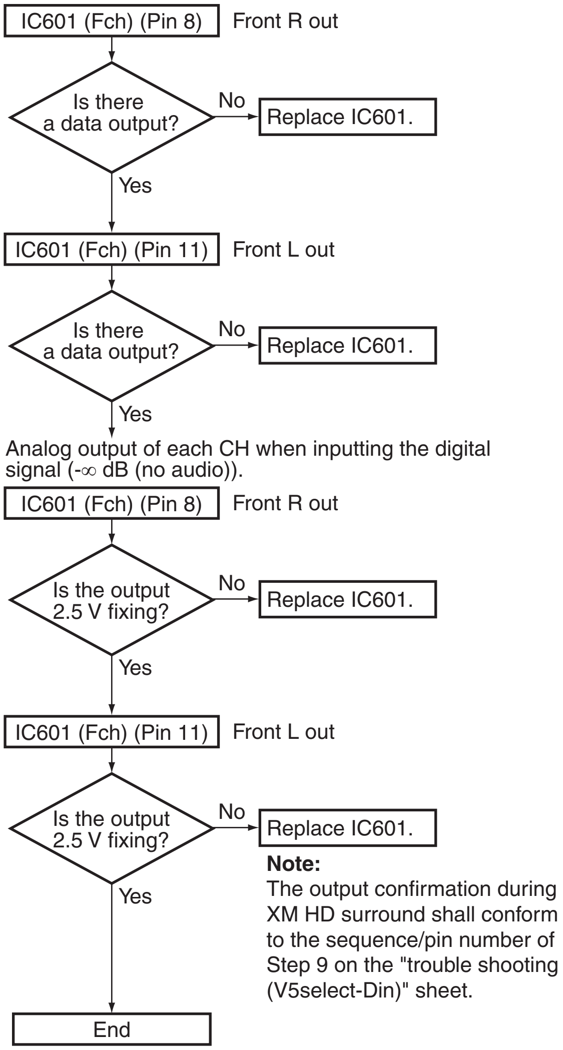
Step 8: DSP output (digital)

Digital output of each CH when inputting the digital signal with audio.


IC401 (Pin 125)
Front L/R data
Is there a data output?
No
Is the voltage of DS0RST at 3.3 V? (Does it drop to 0V periodically?)
(0 V ⇔ 3.3 V)
No
Yes
Yes
There is a possibility of the Boot error. (Identification of the defective part near DSP is extremely difficult.)
Replace IC401.
Digital output of each CH when inputting the digital signal (-∞ dB (no audio)).
IC401 (Pin 125)
Front L/R data
Is the output 0 V fixing?
No
Replace IC401.
Yes
Note:
The output confirmation during XM HD surround shall conform to the sequence/pin number of Step 8 on the "trouble shooting (V5select-Din)" sheet.
Check that the clock signal is output.
IC501 (Pin 3)
DAMC (Master clock)
Is there a master clock output?
No
Replace IC501.
(0 V ⇔ 3.3 V)
Yes
IC501 (Pin 6)
DABC (Bit clock)
Is there a bit clock output?
No
Replace IC501.
(0 V ⇔ 3.3 V)
Yes
IC501 (Pin 11)
DALR (LR clock)
Is there a LR clock output?
No
Replace IC501.
(0 V ⇔ 3.3 V)
Yes
To Step 9

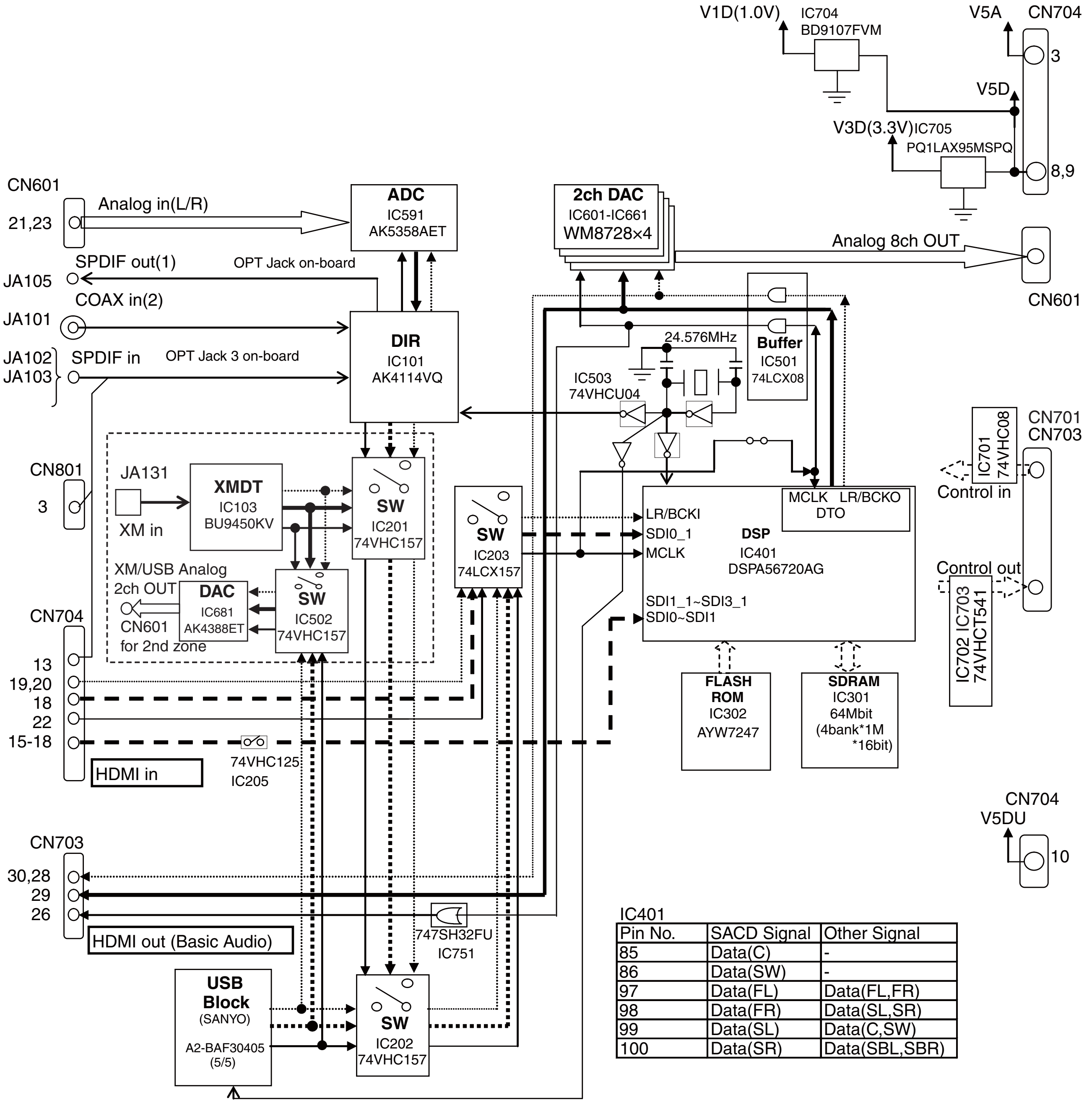
Step 9: DAC output (analog)

Analog output of each CH when inputting the digital signal with audio.


IC601 (Fch) (Pin 8)
Front R out
Is there a data output?
No
Replace IC601.
Yes
IC601 (Fch) (Pin 11)
Front L out
Is there a data output?
No
Replace IC601.
Yes
Analog output of each CH when inputting the digital signal (-∞ dB (no audio)).
IC601 (Fch) (Pin 8)
Front R out
Is the output 2.5 V fixing?
No
Replace IC601.
Yes
IC601 (Fch) (Pin 11)
Front L out
Is the output 2.5 V fixing?
No
Replace IC601.
Yes
Note:
The output confirmation during XM HD surround shall conform to the sequence/pin number of Step 9 on the "trouble shooting (V5select-Din)" sheet.
End

■ DSP Block Diagram

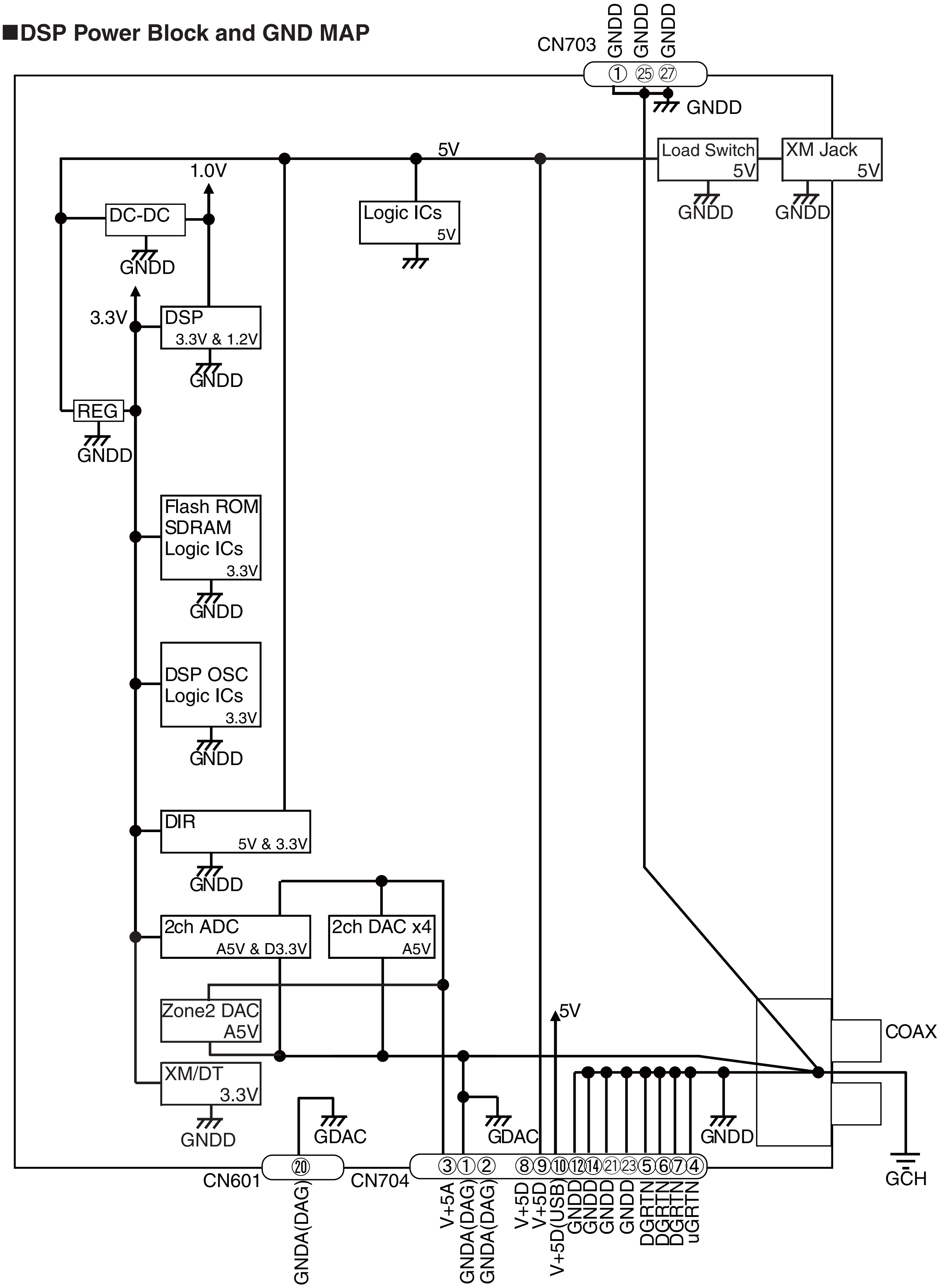
- I2S MCLK
- I2S DATA (2ch)
- I2S DATA (Compression Include(dts HD High Resolution Audio, dts HD LBR, Dolby Digital Plus) or 2ch(under 48KHz for HDMI))
- I2S or DSD DATA (from HDMI "dts HD Master Audio" "Dolby TrueHD" "SACD" "LPCM Multi" "PCM over 88.2KHz or LPCM")
- I2S LRCK, BCK
- Control/Memory Bus Line,etc
- Analog Audio Signal
- SPDIF,Operation Clock,etc


V1D(1.0V)
IC704
BD9107FVM
V5A
CN704
3
V5D
V3D(3.3V)
IC705
PQ1LAX95MSPQ
8,9
CN601
21,23
Analog in(L/R)
ADC
IC591
AK5358AET
2ch DAC
IC601-IC661
WM8728×4
Analog 8ch OUT
CN601
SPDIF out(1)
OPT Jack on-board
JA105
COAX in(2)
JA101
DIR
IC101
AK4114VQ
JA102
JA103
SPDIF in
OPT Jack 3 on-board
24.576MHz
Buffer
IC501
74LCX08
IC503
74VHCU04
CN701
CN703
IC701
74VHC08
Control in
CN801
3
JA131
XMDT
IC103
BU9450KV
XM in
SW
IC201
74VHC157
SW
IC203
74LCX157
LR/BCKI
SDI0_1
MCLK
MCLK
LR/BCKO
DTO
DSP
IC401
DSPA56720AG
SDI1_1~SDI3_1
SDI0~SDI1
Control out
IC702 IC703
74VHCT541
XM/USB Analog
2ch OUT
DAC
IC681
AK4388ET
CN601
for 2nd zone
SW
IC502
74VHC157
CN704
13
19,20
18
22
15-18
HDMI in
74VHC125
IC205
FLASH
ROM
IC302
AYW7247
SDRAM
IC301
64Mbit
(4bank*1M
*16bit)
CN704
V5DU
10
CN703
30,28
29
26
HDMI out (Basic Audio)
747SH32FU
IC751
USB
Block
(SANYO)
A2-BAF30405
(5/5)
SW
IC202
74VHC157

IC401

Pin No.	SACD Signal	Other Signal
85	Data(C)	-
86	Data(SW)	-
97	Data(FL)	Data(FL,FR)
98	Data(FR)	Data(SL,SR)
99	Data(SL)	Data(C,SW)
100	Data(SR)	Data(SBL,SBR)

■DSP Power Block and GND MAP


CN703
GNDD
GNDD
GNDD
①
㉕
㉗
GNDD
5V
1.0V
Load Switch
5V
XM Jack
5V
GNDD
GNDD
DC-DC
GNDD
Logic ICs
5V
3.3V
DSP
3.3V & 1.2V
GNDD
REG
GNDD
Flash ROM
SDRAM
Logic ICs
3.3V
GNDD
DSP OSC
Logic ICs
3.3V
GNDD
DIR
5V & 3.3V
GNDD
2ch ADC
A5V & D3.3V
2ch DAC x4
A5V
Zone2 DAC
A5V
5V
COAX
XM/DT
3.3V
GNDD
GDAC
GDAC
GNDD
GCH
CN601
⑳
GNDA(DAG)
CN704
③①②
⑧⑨⑩⑫⑭㉑㉓⑤⑥⑦④
V+5A
GNDA(DAG)
GNDA(DAG)
V+5D
V+5D
V+5D(USB)
GNDD
GNDD
GNDD
GNDD
DGRTN
DGRTN
DGRTN
uGRTN

■ Conditions for selecting SPDIF or I2S output

Indistinguishable

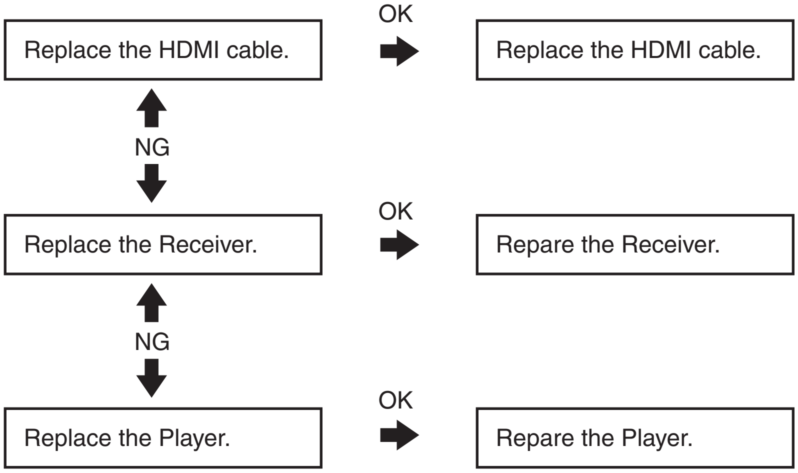
	pcm	fs(kHz)	Layout	SPDIF	I2S(3 lines)
	Compression DVD-V	48	2ch	◎	×
	Compression *.WAV	44	2ch	○	×
		48	2ch	○	×
	dts-CD	44	2ch	○	×
	PCM	44	2ch	○	×
		48	2ch	○	×
	DVD-V	96	2ch		○
	LPCM	44	2ch	○	
			Multi	×	○
		48	2ch	○	
			Multi	×	○
		88	2ch		○
			Multi	×	○
	DVD-A	96	2ch		○
			Multi	×	○
		176	2ch	×	○
			Multi	-	-
		192	2ch	×	○
			Multi	-	-

SACD	2ch	×	○	(DSD)
	Multi	×	○	(DSD)

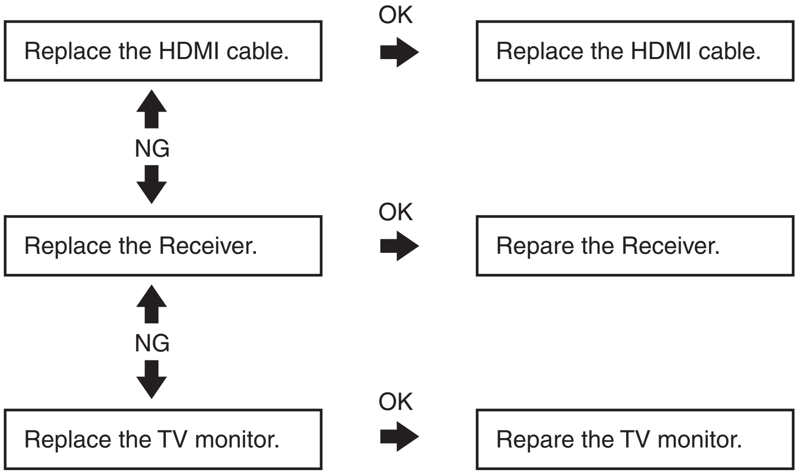
dts HD Master Audio	×	○
dts HD High Resolution Audio	○	×
dts HD LBR	○	×
Dolby TrueHD	×	○
Dolby Digital Plus	○	×

[3] HDMI Simple Diagnosis

1. Causes for noncompletion of HDMI authentication between the source equipment and this unit (the HDMI indicator is unlit or flashes)


OK
Replace the HDMI cable.
Replace the HDMI cable.
NG
OK
Replace the Receiver.
Repare the Receiver.
NG
OK
Replace the Player.
Repare the Player.

2. Causes for noncompletion of HDMI authentication between the monitor and this unit (no display or sound from the monitor)


OK
Replace the HDMI cable.
Replace the HDMI cable.
NG
OK
Replace the Receiver.
Repare the Receiver.
NG
OK
Replace the TV monitor.
Repare the TV monitor.

[4] Preparations for HDMI diagnosis

Note : Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

Jig cable

- Extension jig cable (GGD1492) x2
- 11P board to board extension jig cable (GGD1576)
- 19P board to board extension jig cable (GGD1577) x2
- 11P FFC (GGD1578)

[Procedures]

① Remove the Rear Panel.

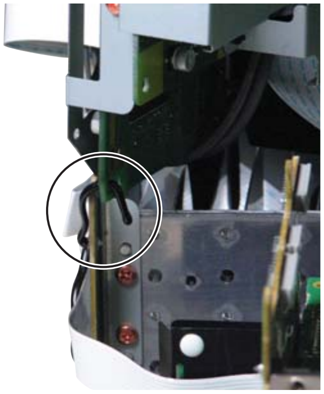
② Remove the screw that fix the MAIN Assy and the Wire Styling of the PCB Binder.

③ Remove the two screws that fix the HDMI Shield V5S.

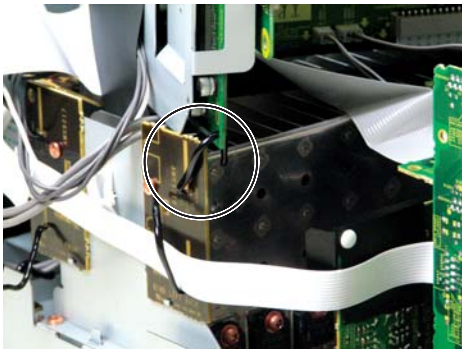
④ Connect the four extension jig cables (two 19P board to board extension jig cable, one 11P board to board extension jig cable and 11P FFC).

⑤ Raise the MAIN Assy with the HDMI&DVC Assy and DSP&USB Assy attached and place it on the Heat Sink V5S.
Fix the lower part of the HDMI&DVC Assy with the PCB Binder.

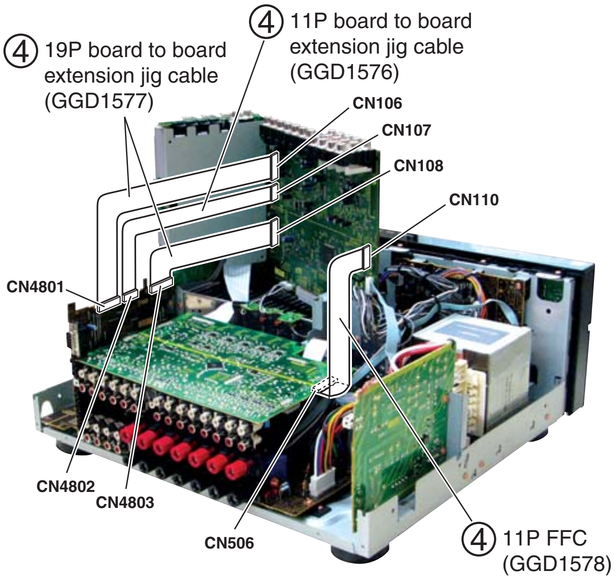
Position of Wire Styling

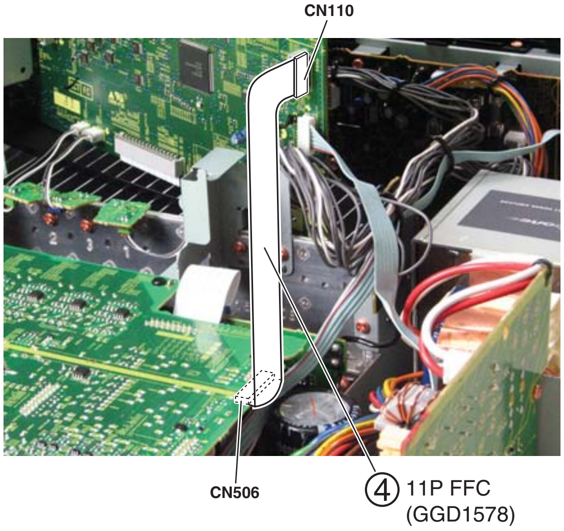


Position of Wire Styling (The above angle is different.)

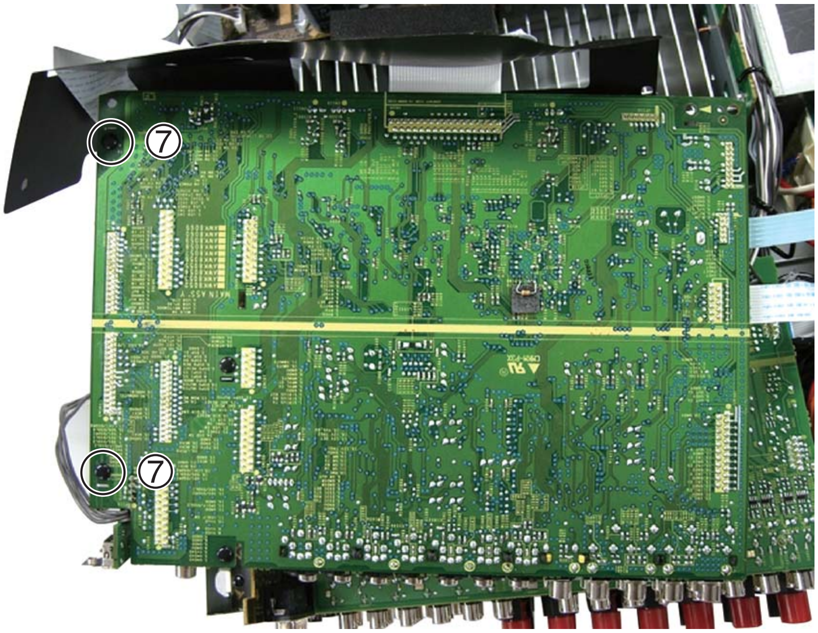


⑥ Connect the earth point.

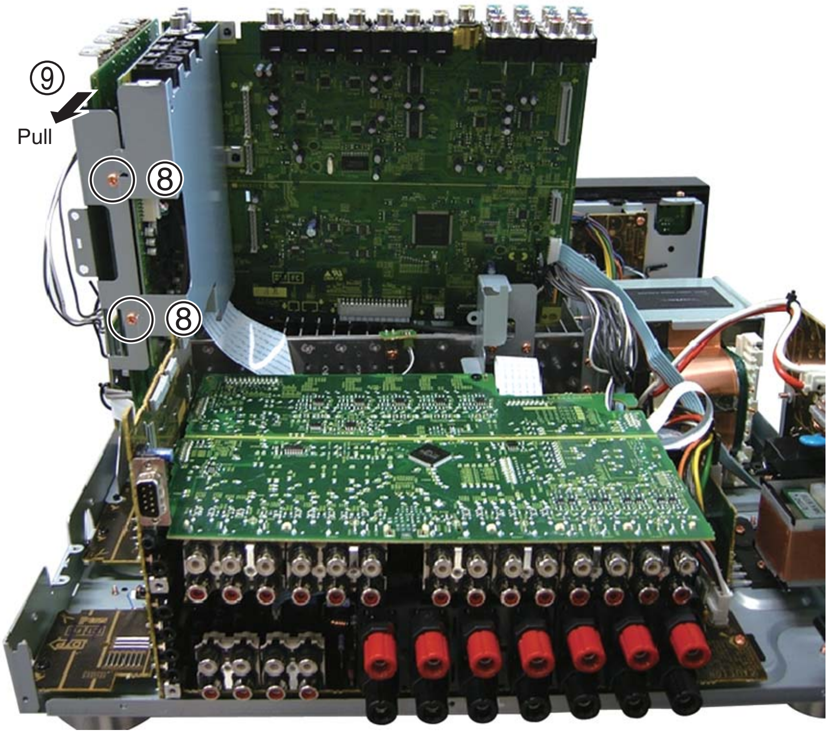

④ 19P board to board extension jig cable (GGD1577)
④ 11P board to board extension jig cable (GGD1576)
CN106
CN107
CN108
CN110
CN4801
CN4802
CN4803
CN506
④ 11P FFC (GGD1578)


CN110
CN506
④ 11P FFC (GGD1578)

⑦ Remove the two Nylon Rivets fixing the HDMI Shield V5S on MAIN Assy.

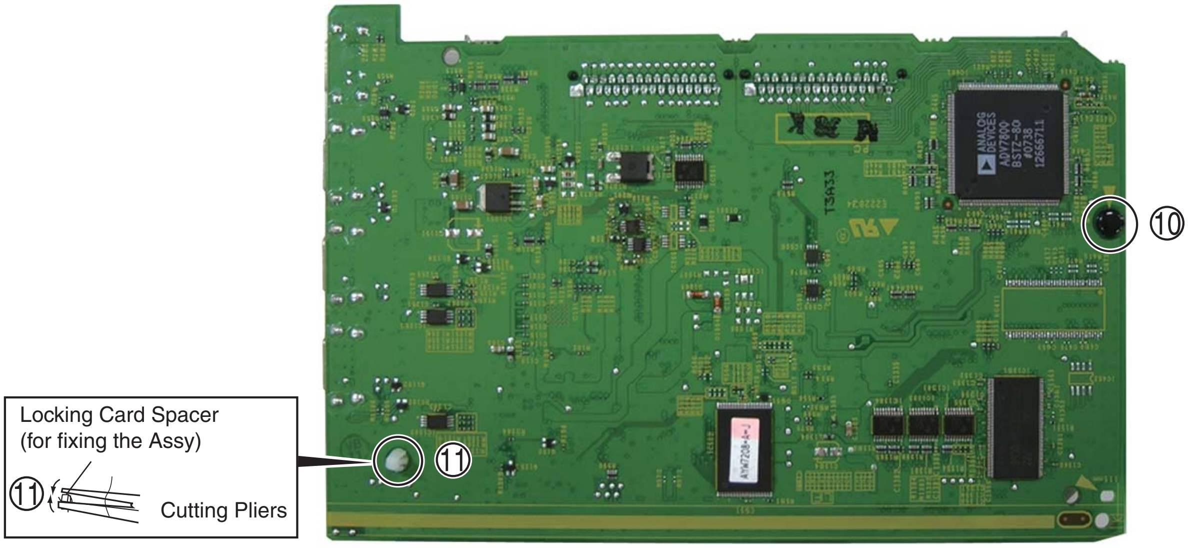


⑧ Remove the two screws from the HDMI Shield V5S.
⑨ Remove the HDMI&DVC Assy and HDMI Shield V5S together from the MAIN Assy.



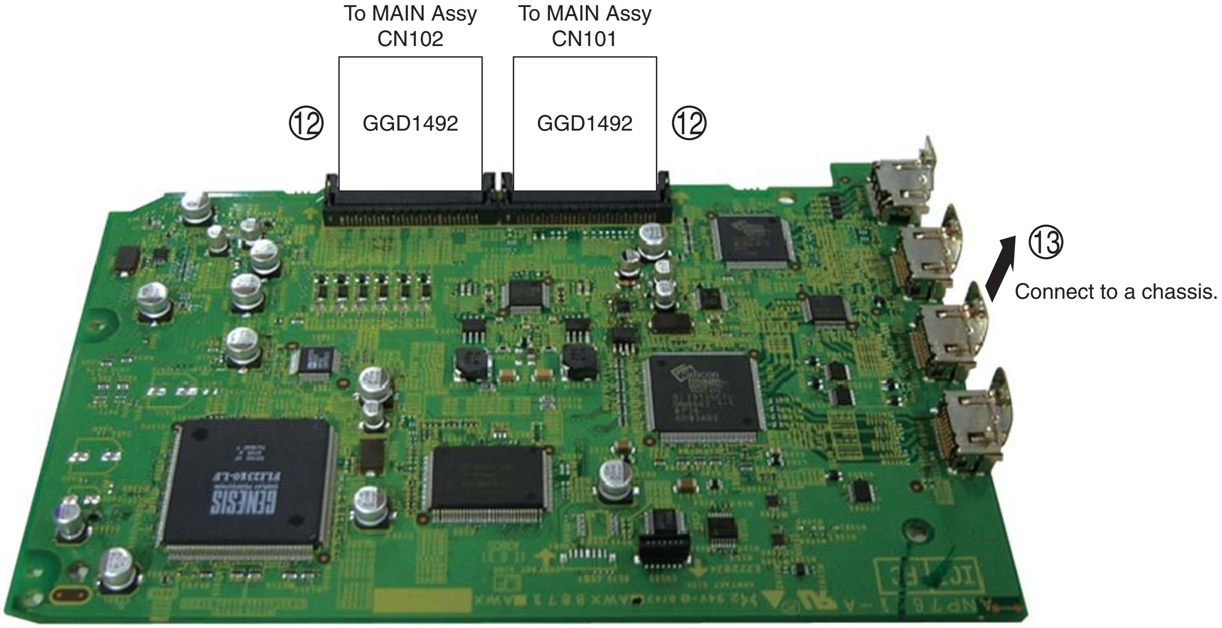
⑩ Remove the Nylon Rivet fixing the HDMI&DVC Assy and the HDMI Shield V5S.

⑪ Remove the HDMI&DVC Assy while holding the Locking Card Spacer with a Cutting Pliers.
* Caution is required not to lose the Radiation Sheet between IC1301 and the HDMI Shield V5S.


⑩
Locking Card Spacer
(for fixing the Assy)
⑪
⑪
Cutting Pliers

⑫ HDMI&DVC Assy MAIN Assy
CN1001 - CN101
CN1002 - CN102
Connect each combination above with an extension jig cable (GGD1492).

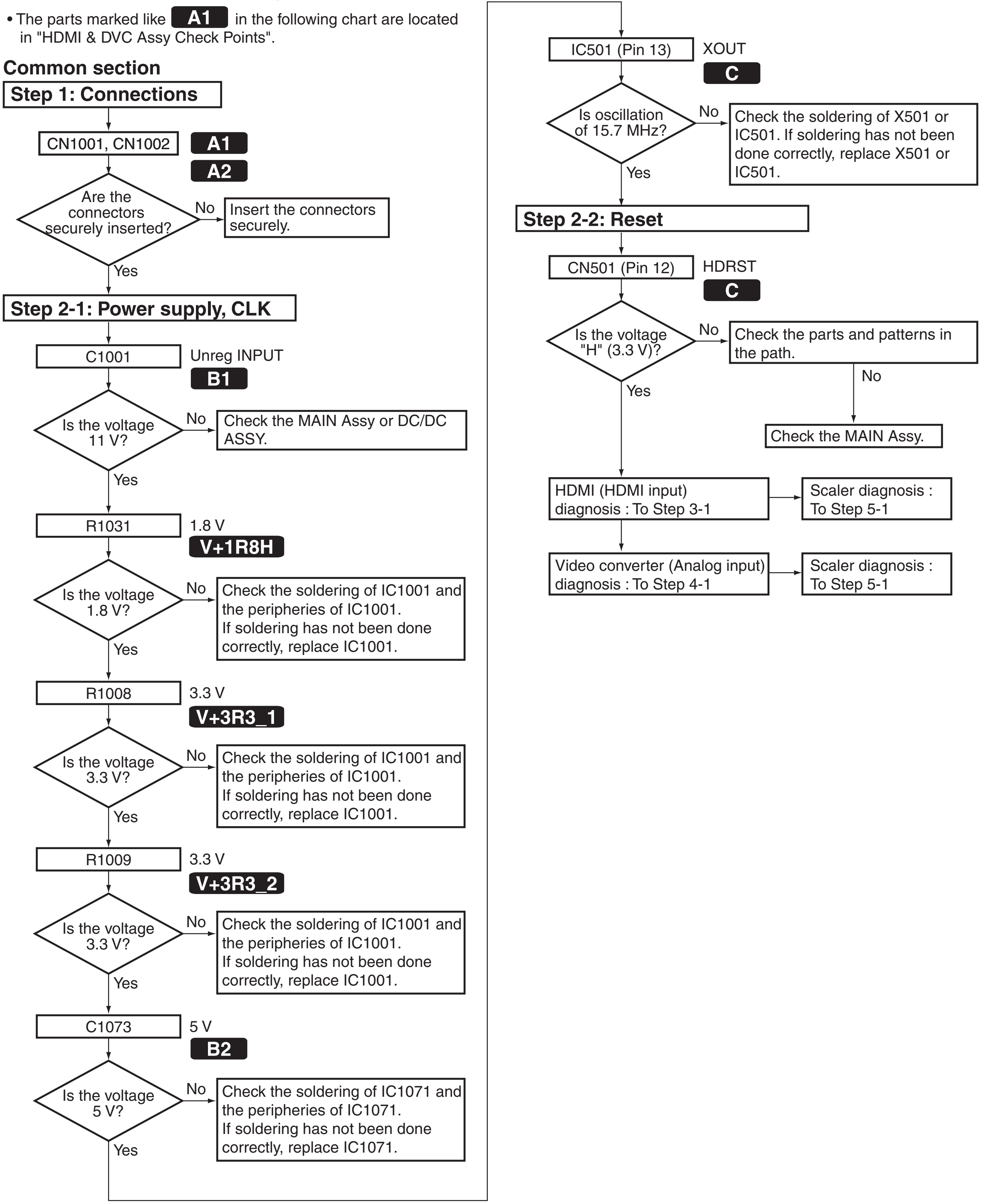
⑬ Connect one of the HDMI connectors and a chassis (connect GND).


To MAIN Assy
CN102
To MAIN Assy
CN101
⑫
GGD1492
GGD1492
⑫
⑬
Connect to a chassis.

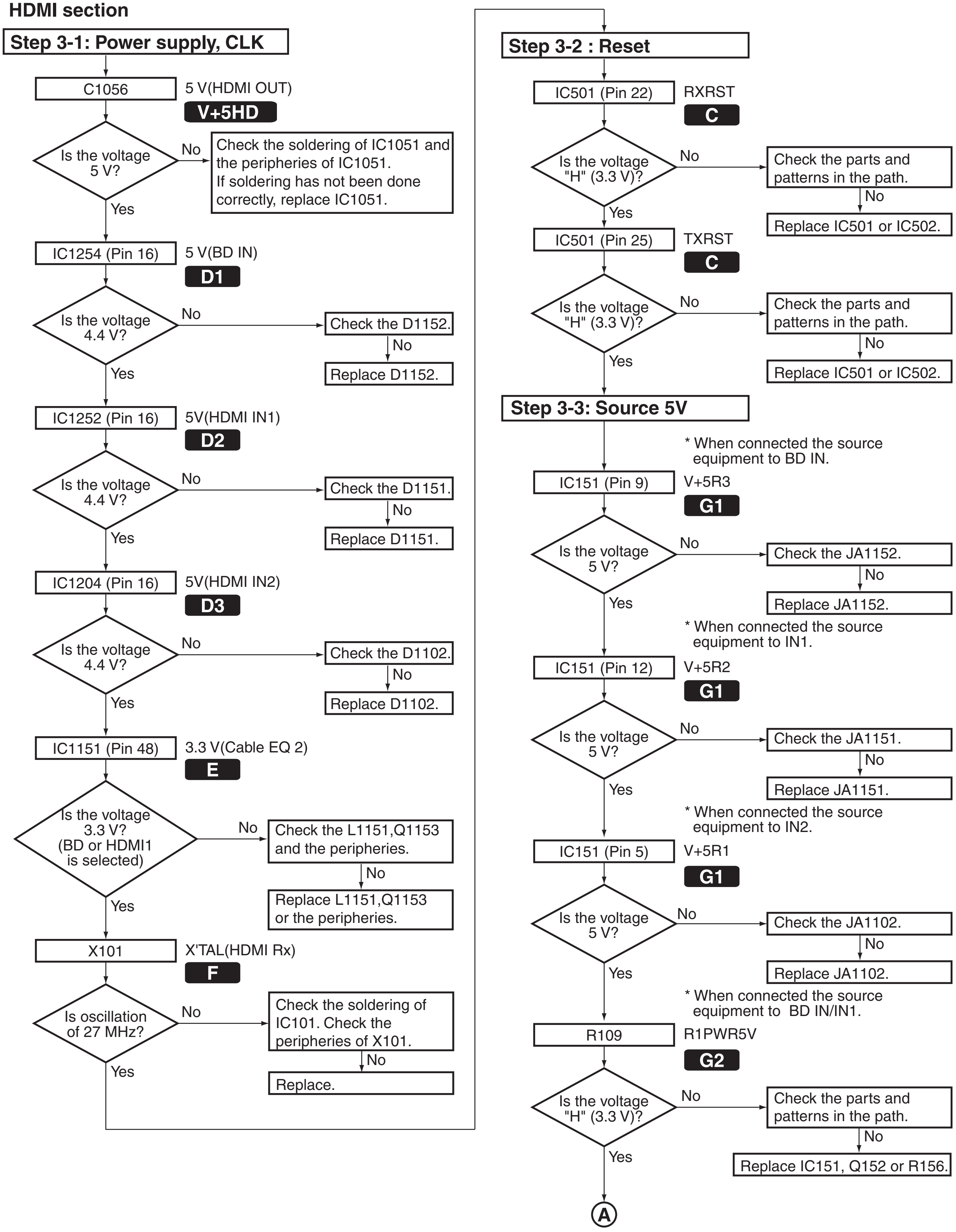
[5] HDMI Troubleshooting

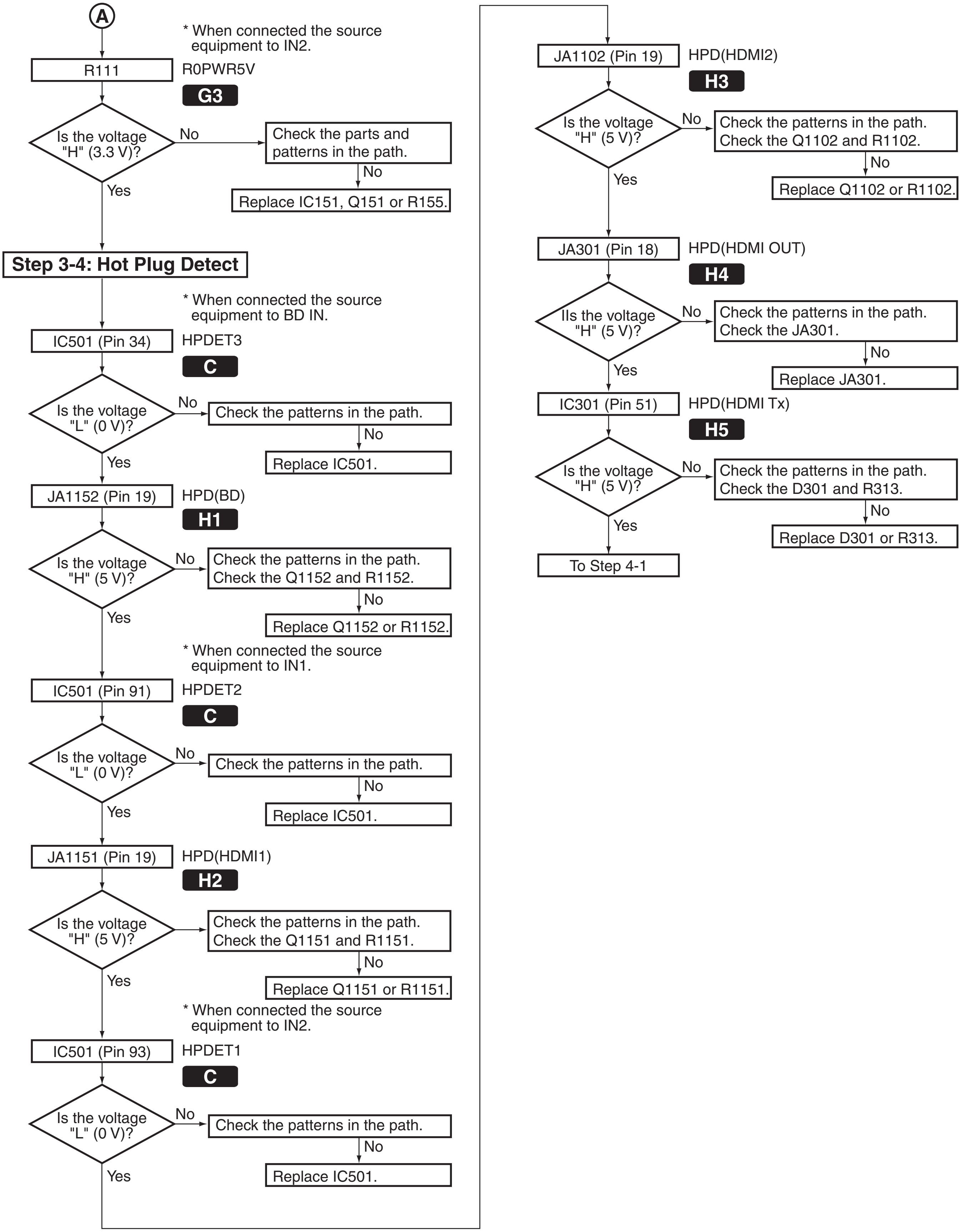
- The parts marked like **A1** in the following chart are located in "HDMI & DVC Assy Check Points".

Common section

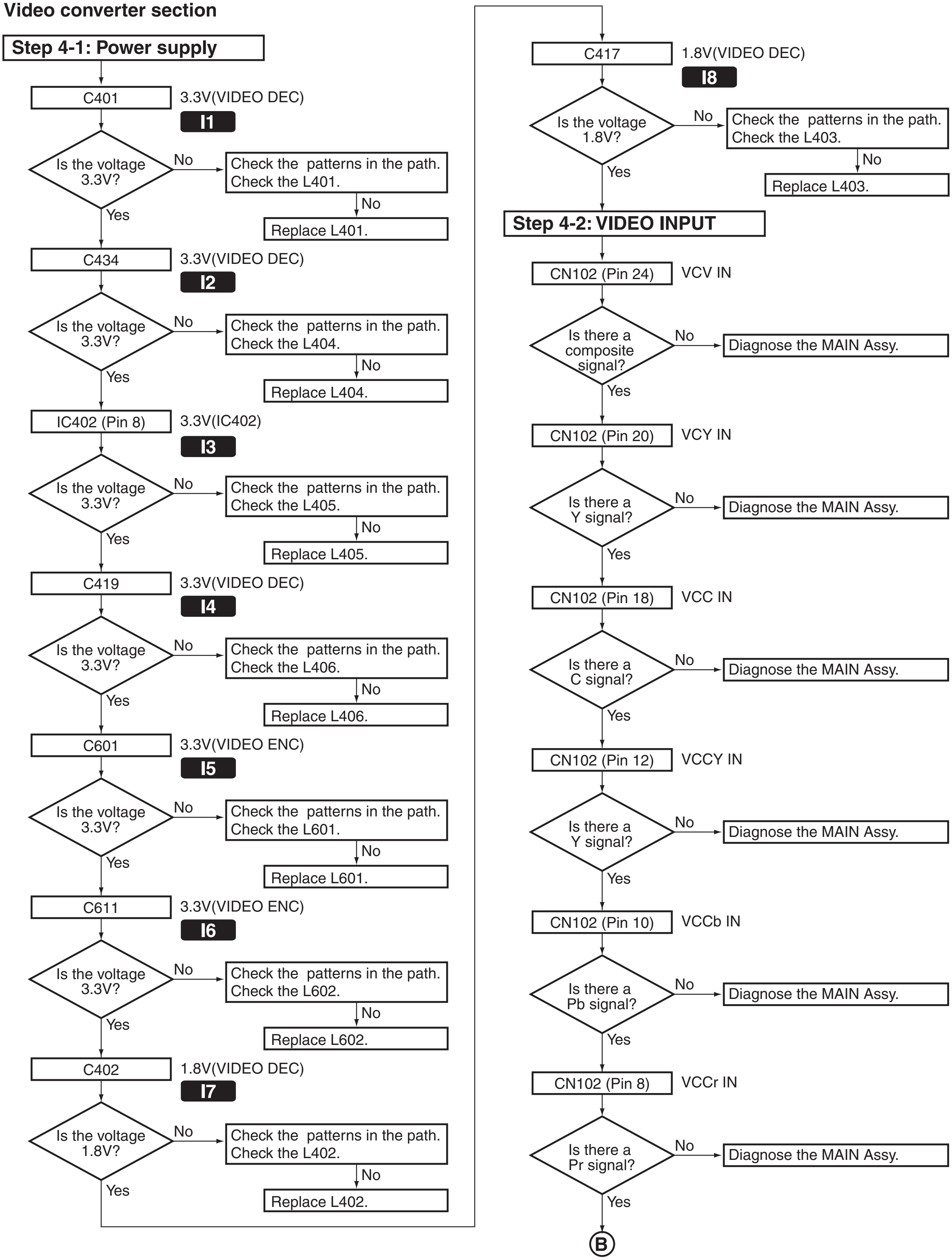

Step 1: Connections
CN1001, CN1002
A1
A2
Are the connectors securely inserted?
No
Insert the connectors securely.
Yes
Step 2-1: Power supply, CLK
C1001
Unreg INPUT
B1
Is the voltage 11 V?
No
Check the MAIN Assy or DC/DC ASSY.
Yes
R1031
1.8 V
V+1R8H
Is the voltage 1.8 V?
No
Check the soldering of IC1001 and the peripheries of IC1001. If soldering has not been done correctly, replace IC1001.
Yes
R1008
3.3 V
V+3R3_1
Is the voltage 3.3 V?
No
Check the soldering of IC1001 and the peripheries of IC1001. If soldering has not been done correctly, replace IC1001.
Yes
R1009
3.3 V
V+3R3_2
Is the voltage 3.3 V?
No
Check the soldering of IC1001 and the peripheries of IC1001. If soldering has not been done correctly, replace IC1001.
Yes
C1073
5 V
B2
Is the voltage 5 V?
No
Check the soldering of IC1071 and the peripheries of IC1071. If soldering has not been done correctly, replace IC1071.
Yes
IC501 (Pin 13)
XOUT
C
Is oscillation of 15.7 MHz?
No
Check the soldering of X501 or IC501. If soldering has not been done correctly, replace X501 or IC501.
Yes
Step 2-2: Reset
CN501 (Pin 12)
HDRST
C
Is the voltage "H" (3.3 V)?
No
Check the parts and patterns in the path.
No
Check the MAIN Assy.
Yes
HDMI (HDMI input) diagnosis : To Step 3-1
Scaler diagnosis : To Step 5-1
Video converter (Analog input) diagnosis : To Step 4-1
Scaler diagnosis : To Step 5-1

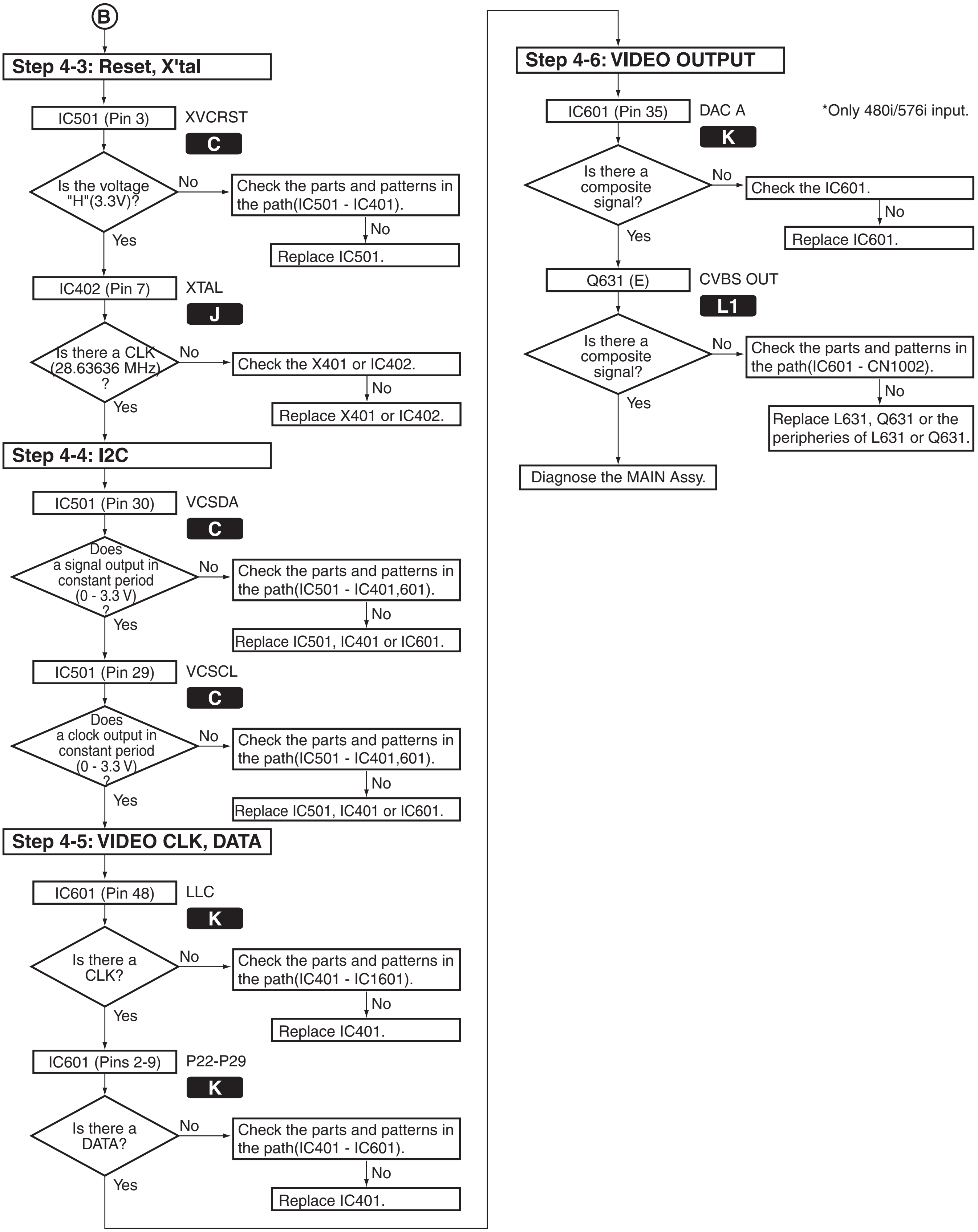
HDMI section

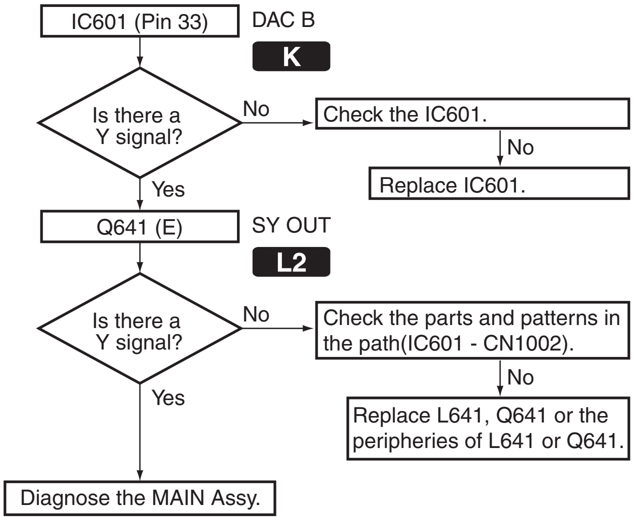

Step 3-1: Power supply, CLK
C1056
5 V(HDMI OUT)
V+5HD
Is the voltage 5 V?
No
Check the soldering of IC1051 and the peripheries of IC1051. If soldering has not been done correctly, replace IC1051.
Yes
IC1254 (Pin 16)
5 V(BD IN)
D1
Is the voltage 4.4 V?
No
Check the D1152.
No
Replace D1152.
Yes
IC1252 (Pin 16)
5V(HDMI IN1)
D2
Is the voltage 4.4 V?
No
Check the D1151.
No
Replace D1151.
Yes
IC1204 (Pin 16)
5V(HDMI IN2)
D3
Is the voltage 4.4 V?
No
Check the D1102.
No
Replace D1102.
Yes
IC1151 (Pin 48)
3.3 V(Cable EQ 2)
E
Is the voltage 3.3 V? (BD or HDMI1 is selected)
No
Check the L1151,Q1153 and the peripheries.
No
Replace L1151,Q1153 or the peripheries.
Yes
X101
X'TAL(HDMI Rx)
F
Is oscillation of 27 MHz?
No
Check the soldering of IC101. Check the peripheries of X101.
No
Replace.
Yes
Step 3-2 : Reset
IC501 (Pin 22)
RXRST
C
Is the voltage "H" (3.3 V)?
No
Check the parts and patterns in the path.
No
Replace IC501 or IC502.
Yes
IC501 (Pin 25)
TXRST
C
Is the voltage "H" (3.3 V)?
No
Check the parts and patterns in the path.
No
Replace IC501 or IC502.
Yes
Step 3-3: Source 5V
* When connected the source equipment to BD IN.
IC151 (Pin 9)
V+5R3
G1
Is the voltage 5 V?
No
Check the JA1152.
No
Replace JA1152.
Yes
* When connected the source equipment to IN1.
IC151 (Pin 12)
V+5R2
G1
Is the voltage 5 V?
No
Check the JA1151.
No
Replace JA1151.
Yes
* When connected the source equipment to IN2.
IC151 (Pin 5)
V+5R1
G1
Is the voltage 5 V?
No
Check the JA1102.
No
Replace JA1102.
Yes
* When connected the source equipment to BD IN/IN1.
R109
R1PWR5V
G2
Is the voltage "H" (3.3 V)?
No
Check the parts and patterns in the path.
No
Replace IC151, Q152 or R156.
Yes
A

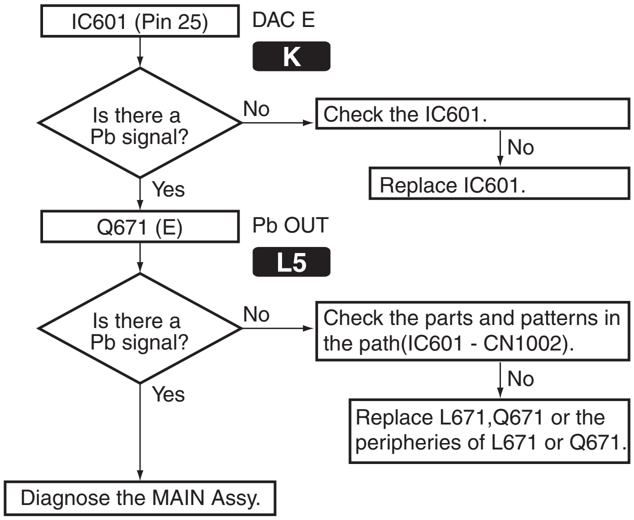

A
* When connected the source equipment to IN2.
R111
R0PWR5V
G3
Is the voltage "H" (3.3 V)?
No
Check the parts and patterns in the path.
No
Replace IC151, Q151 or R155.
Yes
Step 3-4: Hot Plug Detect
* When connected the source equipment to BD IN.
IC501 (Pin 34)
HPDET3
C
Is the voltage "L" (0 V)?
No
Check the patterns in the path.
No
Replace IC501.
Yes
JA1152 (Pin 19)
HPD(BD)
H1
Is the voltage "H" (5 V)?
No
Check the patterns in the path. Check the Q1152 and R1152.
No
Replace Q1152 or R1152.
Yes
* When connected the source equipment to IN1.
IC501 (Pin 91)
HPDET2
C
Is the voltage "L" (0 V)?
No
Check the patterns in the path.
No
Replace IC501.
Yes
JA1151 (Pin 19)
HPD(HDMI1)
H2
Is the voltage "H" (5 V)?
Check the patterns in the path. Check the Q1151 and R1151.
No
Replace Q1151 or R1151.
Yes
* When connected the source equipment to IN2.
IC501 (Pin 93)
HPDET1
C
Is the voltage "L" (0 V)?
No
Check the patterns in the path.
No
Replace IC501.
Yes
JA1102 (Pin 19)
HPD(HDMI2)
H3
Is the voltage "H" (5 V)?
No
Check the patterns in the path. Check the Q1102 and R1102.
No
Replace Q1102 or R1102.
Yes
JA301 (Pin 18)
HPD(HDMI OUT)
H4
IIs the voltage "H" (5 V)?
No
Check the patterns in the path. Check the JA301.
No
Replace JA301.
Yes
IC301 (Pin 51)
HPD(HDMI Tx)
H5
Is the voltage "H" (5 V)?
No
Check the patterns in the path. Check the D301 and R313.
No
Replace D301 or R313.
Yes
To Step 4-1

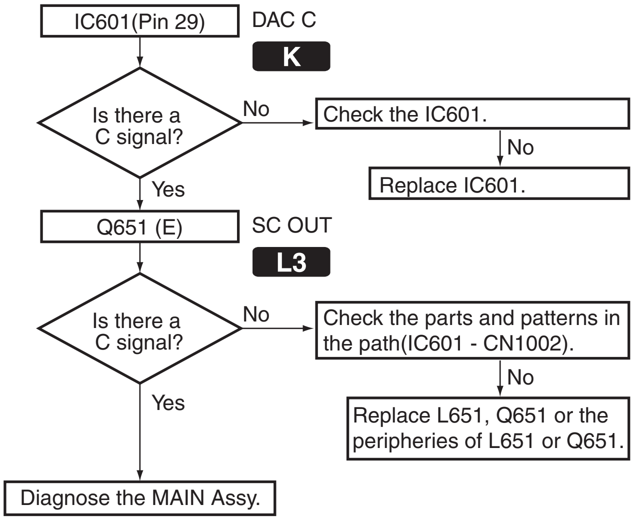
Video converter section

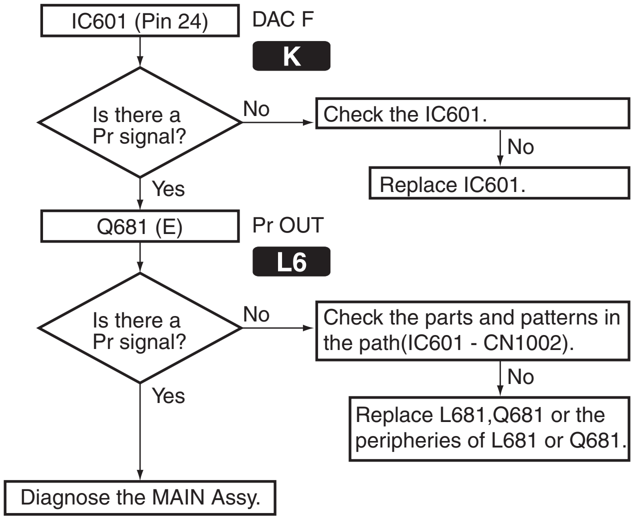

Step 4-1: Power supply
C401
3.3V(VIDEO DEC)
I1
Is the voltage 3.3V?
No
Check the patterns in the path. Check the L401.
No
Replace L401.
Yes
C434
3.3V(VIDEO DEC)
I2
Is the voltage 3.3V?
No
Check the patterns in the path. Check the L404.
No
Replace L404.
Yes
IC402 (Pin 8)
3.3V(IC402)
I3
Is the voltage 3.3V?
No
Check the patterns in the path. Check the L405.
No
Replace L405.
Yes
C419
3.3V(VIDEO DEC)
I4
Is the voltage 3.3V?
No
Check the patterns in the path. Check the L406.
No
Replace L406.
Yes
C601
3.3V(VIDEO ENC)
I5
Is the voltage 3.3V?
No
Check the patterns in the path. Check the L601.
No
Replace L601.
Yes
C611
3.3V(VIDEO ENC)
I6
Is the voltage 3.3V?
No
Check the patterns in the path. Check the L602.
No
Replace L602.
Yes
C402
1.8V(VIDEO DEC)
I7
Is the voltage 1.8V?
No
Check the patterns in the path. Check the L402.
No
Replace L402.
Yes
C417
1.8V(VIDEO DEC)
I8
Is the voltage 1.8V?
No
Check the patterns in the path. Check the L403.
No
Replace L403.
Yes
Step 4-2: VIDEO INPUT
CN102 (Pin 24)
VCV IN
Is there a composite signal?
No
Diagnose the MAIN Assy.
Yes
CN102 (Pin 20)
VCY IN
Is there a Y signal?
No
Diagnose the MAIN Assy.
Yes
CN102 (Pin 18)
VCC IN
Is there a C signal?
No
Diagnose the MAIN Assy.
Yes
CN102 (Pin 12)
VCCY IN
Is there a Y signal?
No
Diagnose the MAIN Assy.
Yes
CN102 (Pin 10)
VCCb IN
Is there a Pb signal?
No
Diagnose the MAIN Assy.
Yes
CN102 (Pin 8)
VCCr IN
Is there a Pr signal?
No
Diagnose the MAIN Assy.
Yes
B

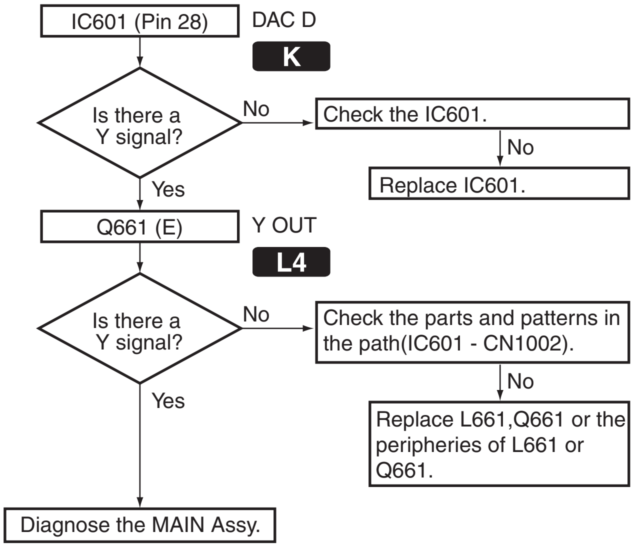

B
Step 4-3: Reset, X'tal
IC501 (Pin 3)
XVCRST
C
Is the voltage "H"(3.3V)?
No
Check the parts and patterns in the path(IC501 - IC401).
No
Replace IC501.
Yes
IC402 (Pin 7)
XTAL
J
Is there a CLK (28.63636 MHz) ?
No
Check the X401 or IC402.
No
Replace X401 or IC402.
Yes
Step 4-4: I2C
IC501 (Pin 30)
VCSDA
C
Does a signal output in constant period (0 - 3.3 V) ?
No
Check the parts and patterns in the path(IC501 - IC401,601).
No
Replace IC501, IC401 or IC601.
Yes
IC501 (Pin 29)
VCSCL
C
Does a clock output in constant period (0 - 3.3 V) ?
No
Check the parts and patterns in the path(IC501 - IC401,601).
No
Replace IC501, IC401 or IC601.
Yes
Step 4-5: VIDEO CLK, DATA
IC601 (Pin 48)
LLC
K
Is there a CLK?
No
Check the parts and patterns in the path(IC401 - IC1601).
No
Replace IC401.
Yes
IC601 (Pins 2-9)
P22-P29
K
Is there a DATA?
No
Check the parts and patterns in the path(IC401 - IC601).
No
Replace IC401.
Yes
Step 4-6: VIDEO OUTPUT
IC601 (Pin 35)
DAC A
*Only 480i/576i input.
K
Is there a composite signal?
No
Check the IC601.
No
Replace IC601.
Yes
Q631 (E)
CVBS OUT
L1
Is there a composite signal?
No
Check the parts and patterns in the path(IC601 - CN1002).
No
Replace L631, Q631 or the peripheries of L631 or Q631.
Yes
Diagnose the MAIN Assy.


IC601 (Pin 33)
DAC B
K
Is there a Y signal?
No
Check the IC601.
No
Replace IC601.
Yes
Q641 (E)
SY OUT
L2
Is there a Y signal?
No
Check the parts and patterns in the path(IC601 - CN1002).
No
Replace L641, Q641 or the peripheries of L641 or Q641.
Yes
Diagnose the MAIN Assy.

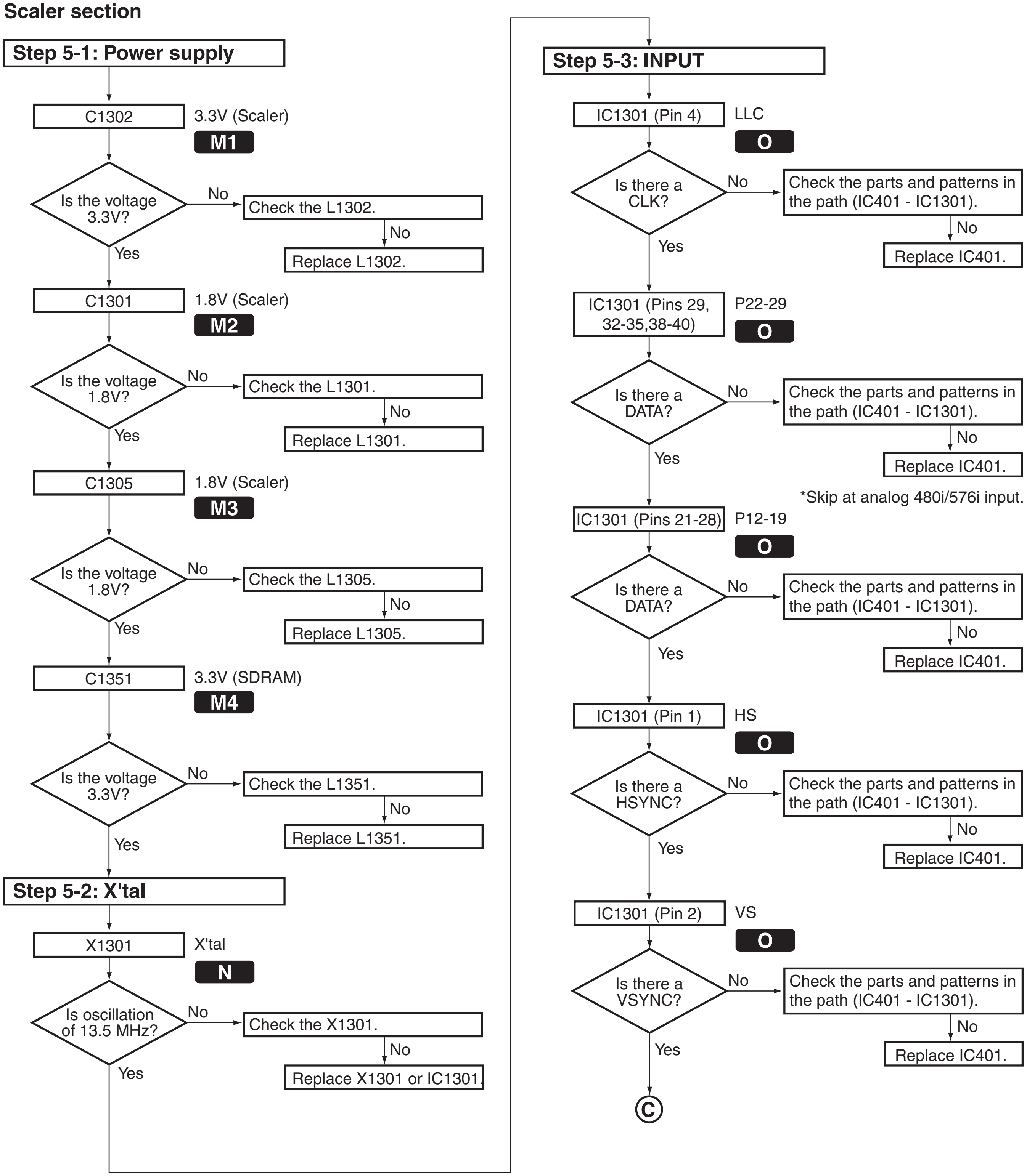

IC601 (Pin 25)
DAC E
K
Is there a Pb signal?
No
Check the IC601.
No
Replace IC601.
Yes
Q671 (E)
Pb OUT
L5
Is there a Pb signal?
No
Check the parts and patterns in the path(IC601 - CN1002).
No
Replace L671,Q671 or the peripheries of L671 or Q671.
Yes
Diagnose the MAIN Assy.

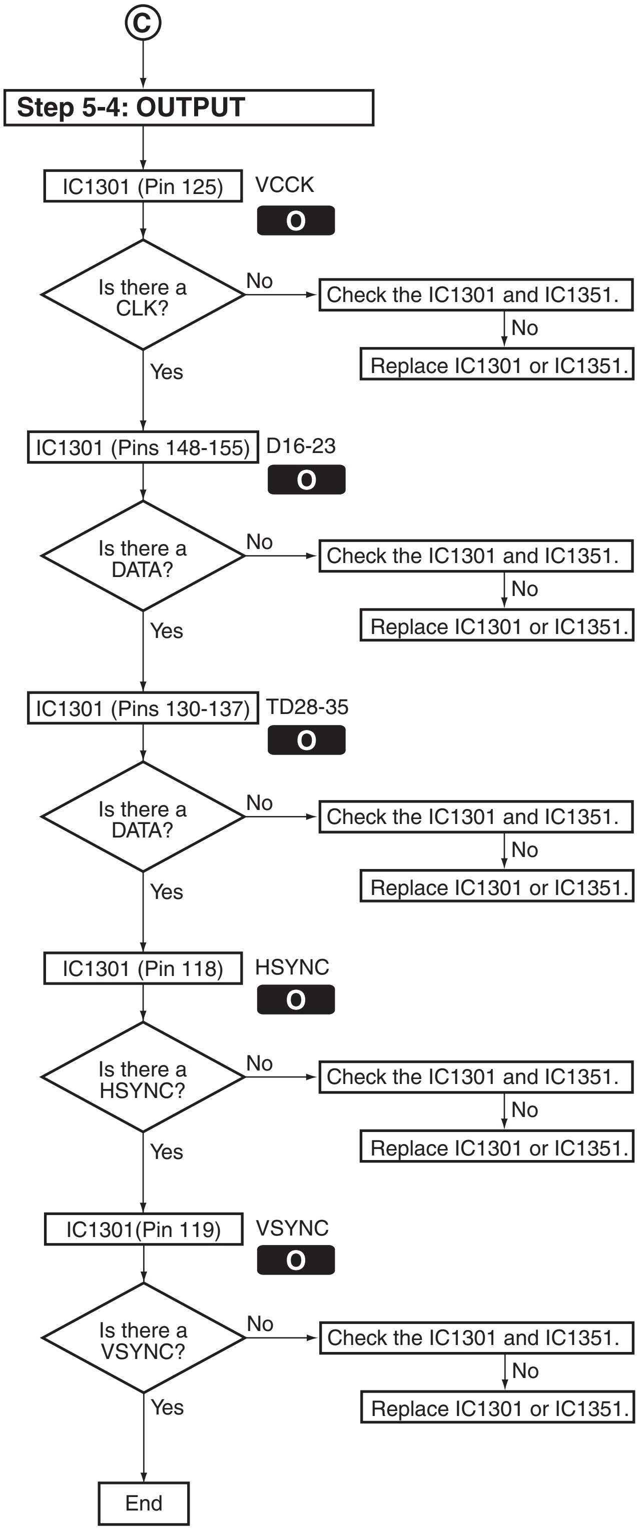

IC601(Pin 29)
DAC C
K
Is there a C signal?
No
Check the IC601.
No
Replace IC601.
Yes
Q651 (E)
SC OUT
L3
Is there a C signal?
No
Check the parts and patterns in the path(IC601 - CN1002).
No
Replace L651, Q651 or the peripheries of L651 or Q651.
Yes
Diagnose the MAIN Assy.


IC601 (Pin 24)
DAC F
K
Is there a Pr signal?
No
Check the IC601.
No
Replace IC601.
Yes
Q681 (E)
Pr OUT
L6
Is there a Pr signal?
No
Check the parts and patterns in the path(IC601 - CN1002).
No
Replace L681,Q681 or the peripheries of L681 or Q681.
Yes
Diagnose the MAIN Assy.


IC601 (Pin 28)
DAC D
K
Is there a Y signal?
No
Check the IC601.
No
Replace IC601.
Yes
Q661 (E)
Y OUT
L4
Is there a Y signal?
No
Check the parts and patterns in the path(IC601 - CN1002).
No
Replace L661,Q661 or the peripheries of L661 or Q661.
Yes
Diagnose the MAIN Assy.

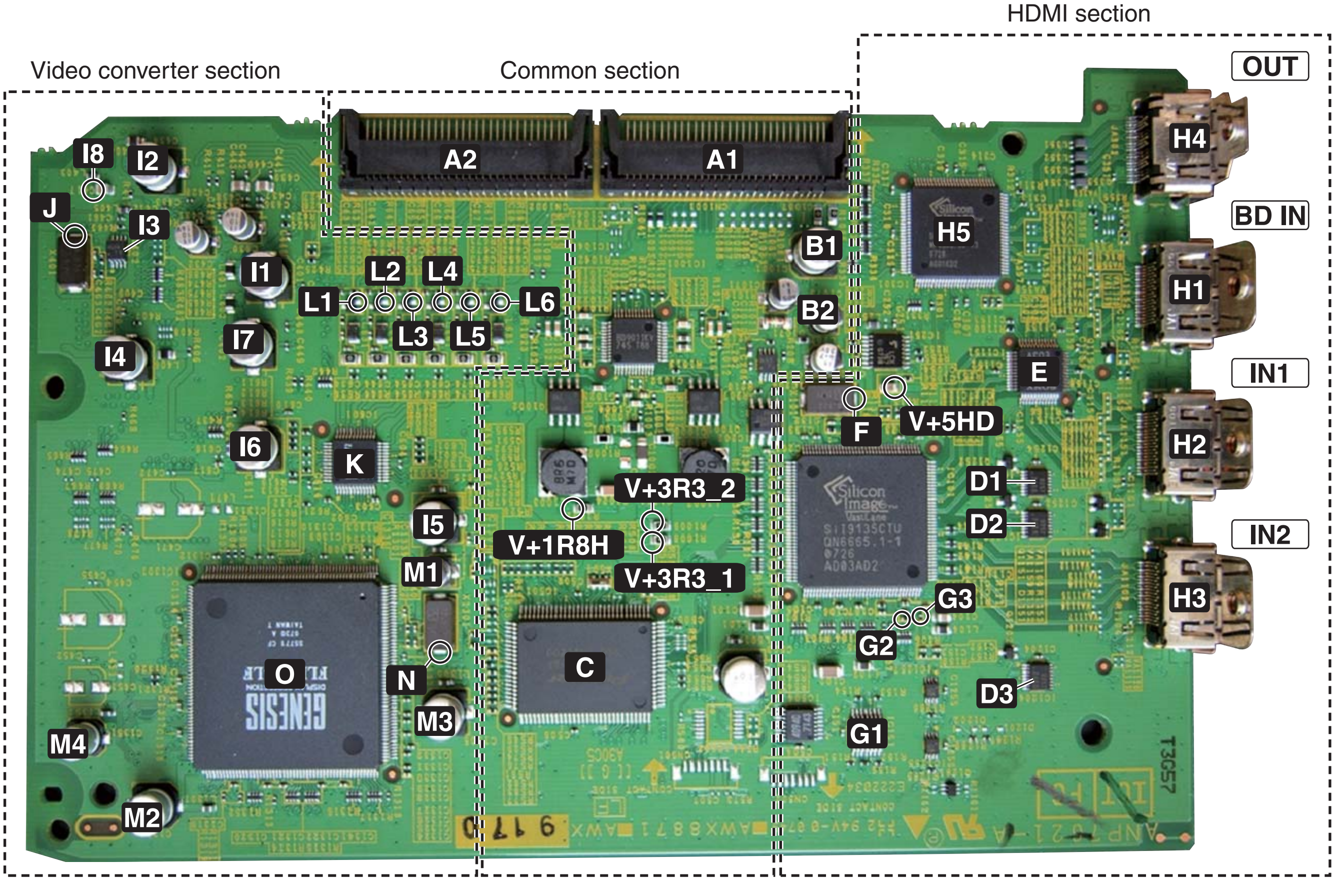
Scaler section


Step 5-1: Power supply
C1302
3.3V (Scaler)
M1
Is the voltage 3.3V?
No
Check the L1302.
No
Replace L1302.
Yes
C1301
1.8V (Scaler)
M2
Is the voltage 1.8V?
No
Check the L1301.
No
Replace L1301.
Yes
C1305
1.8V (Scaler)
M3
Is the voltage 1.8V?
No
Check the L1305.
No
Replace L1305.
Yes
C1351
3.3V (SDRAM)
M4
Is the voltage 3.3V?
No
Check the L1351.
No
Replace L1351.
Yes
Step 5-2: X'tal
X1301
X'tal
N
Is oscillation of 13.5 MHz?
No
Check the X1301.
No
Replace X1301 or IC1301.
Yes
Step 5-3: INPUT
IC1301 (Pin 4)
LLC
O
Is there a CLK?
No
Check the parts and patterns in the path (IC401 - IC1301).
No
Replace IC401.
Yes
IC1301 (Pins 29, 32-35,38-40)
P22-29
O
Is there a DATA?
No
Check the parts and patterns in the path (IC401 - IC1301).
No
Replace IC401.
Yes
*Skip at analog 480i/576i input.
IC1301 (Pins 21-28)
P12-19
O
Is there a DATA?
No
Check the parts and patterns in the path (IC401 - IC1301).
No
Replace IC401.
Yes
IC1301 (Pin 1)
HS
O
Is there a HSYNC?
No
Check the parts and patterns in the path (IC401 - IC1301).
No
Replace IC401.
Yes
IC1301 (Pin 2)
VS
O
Is there a VSYNC?
No
Check the parts and patterns in the path (IC401 - IC1301).
No
Replace IC401.
Yes
C


C
Step 5-4: OUTPUT
IC1301 (Pin 125)
VCCK
O
Is there a CLK?
No
Check the IC1301 and IC1351.
No
Replace IC1301 or IC1351.
Yes
IC1301 (Pins 148-155)
D16-23
O
Is there a DATA?
No
Check the IC1301 and IC1351.
No
Replace IC1301 or IC1351.
Yes
IC1301 (Pins 130-137)
TD28-35
O
Is there a DATA?
No
Check the IC1301 and IC1351.
No
Replace IC1301 or IC1351.
Yes
IC1301 (Pin 118)
HSYNC
O
Is there a HSYNC?
No
Check the IC1301 and IC1351.
No
Replace IC1301 or IC1351.
Yes
IC1301(Pin 119)
VSYNC
O
Is there a VSYNC?
No
Check the IC1301 and IC1351.
No
Replace IC1301 or IC1351.
Yes
End

HDMI & DVC Assy Check Points

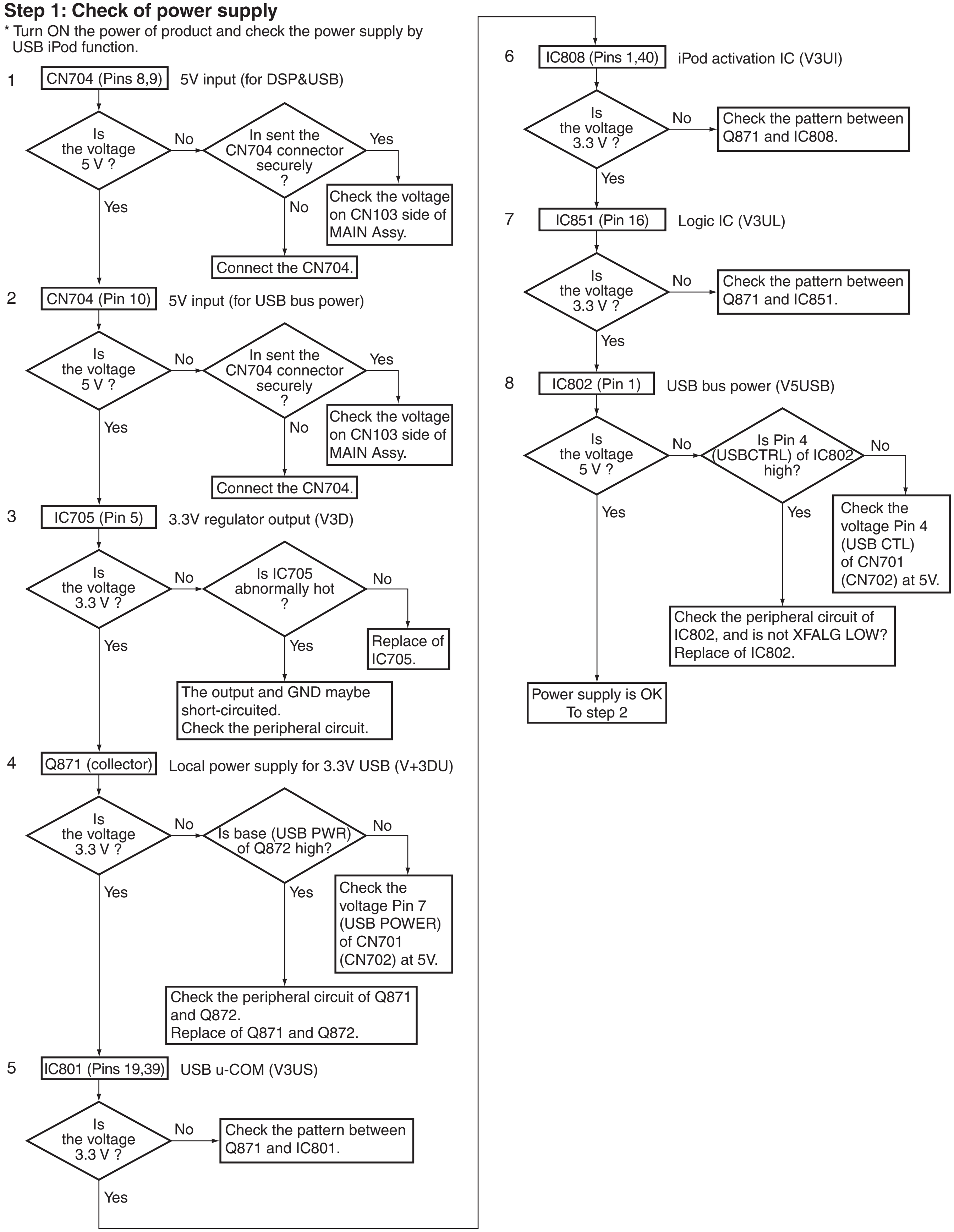
F HDMI & DVC ASSY SIDE A


HDMI section
Video converter section
Common section
OUT
BD IN
IN1
IN2
A1
A2
B1
B2
C
D1
D2
D3
E
F
G1
G2
G3
H1
H2
H3
H4
H5
I1
I2
I3
I4
I5
I6
I7
I8
J
K
L1
L2
L3
L4
L5
L6
M1
M2
M3
M4
N
O
V+5HD
V+3R3_2
V+3R3_1
V+1R8H

[6] USB/iPod Troubleshooting

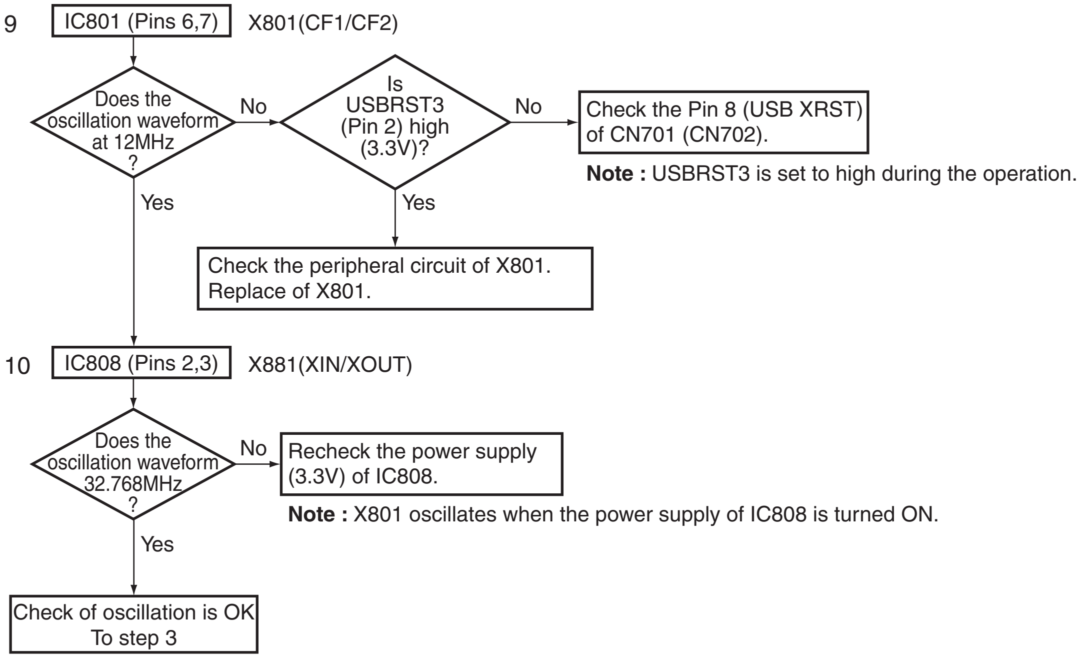
Step 1: Check of power supply

* Turn ON the power of product and check the power supply by USB iPod function.


1
CN704 (Pins 8,9)
5V input (for DSP&USB)
Is the voltage 5 V ?
No
In sent the CN704 connector securely ?
Yes
Check the voltage on CN103 side of MAIN Assy.
No
Connect the CN704.
Yes
2
CN704 (Pin 10)
5V input (for USB bus power)
Is the voltage 5 V ?
No
In sent the CN704 connector securely ?
Yes
Check the voltage on CN103 side of MAIN Assy.
No
Connect the CN704.
Yes
3
IC705 (Pin 5)
3.3V regulator output (V3D)
Is the voltage 3.3 V ?
No
Is IC705 abnormally hot ?
No
Replace of IC705.
Yes
The output and GND maybe short-circuited. Check the peripheral circuit.
Yes
4
Q871 (collector)
Local power supply for 3.3V USB (V+3DU)
Is the voltage 3.3 V ?
No
Is base (USB PWR) of Q872 high?
No
Check the voltage Pin 7 (USB POWER) of CN701 (CN702) at 5V.
Yes
Check the peripheral circuit of Q871 and Q872. Replace of Q871 and Q872.
Yes
5
IC801 (Pins 19,39)
USB u-COM (V3US)
Is the voltage 3.3 V ?
No
Check the pattern between Q871 and IC801.
Yes
6
IC808 (Pins 1,40)
iPod activation IC (V3UI)
Is the voltage 3.3 V ?
No
Check the pattern between Q871 and IC808.
Yes
7
IC851 (Pin 16)
Logic IC (V3UL)
Is the voltage 3.3 V ?
No
Check the pattern between Q871 and IC851.
Yes
8
IC802 (Pin 1)
USB bus power (V5USB)
Is the voltage 5 V ?
No
Is Pin 4 (USBCTRL) of IC802 high?
No
Check the voltage Pin 4 (USB CTL) of CN701 (CN702) at 5V.
Yes
Check the peripheral circuit of IC802, and is not XFALG LOW? Replace of IC802.
Yes
Power supply is OK To step 2

Step 2: Check of oscillation

* Turn ON the power of product and check the power supply by USB iPod function.


9
IC801 (Pins 6,7)
X801(CF1/CF2)
Does the oscillation waveform at 12MHz ?
No
Is USBRST3 (Pin 2) high (3.3V)?
No
Check the Pin 8 (USB XRST) of CN701 (CN702).
Note : USBRST3 is set to high during the operation.
Yes
Yes
Check the peripheral circuit of X801. Replace of X801.
10
IC808 (Pins 2,3)
X881(XIN/XOUT)
Does the oscillation waveform 32.768MHz ?
No
Recheck the power supply (3.3V) of IC808.
Note : X801 oscillates when the power supply of IC808 is turned ON.
Yes
Check of oscillation is OK
To step 3

Step 3: Check of operation of USB u-COM

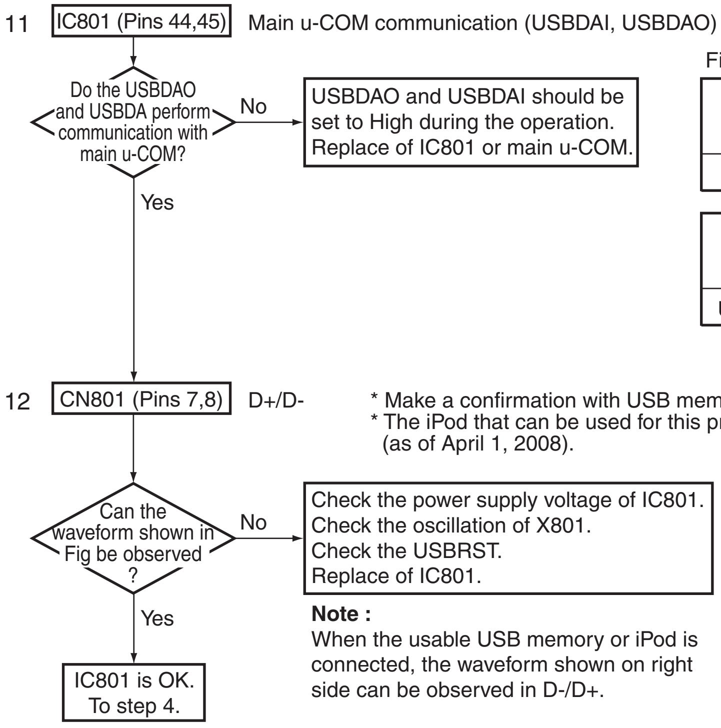

11
IC801 (Pins 44,45)
Main u-COM communication (USBDAI, USBDAO)
Do the USBDAO and USBDA perform communication with main u-COM?
No
USBDAO and USBDAI should be set to High during the operation. Replace of IC801 or main u-COM.
Yes
12
CN801 (Pins 7,8)
D+/D-
Can the waveform shown in Fig be observed ?
No
Check the power supply voltage of IC801.
Check the oscillation of X801.
Check the USBRST.
Replace of IC801.
Yes
IC801 is OK.
To step 4.

Fig. 1

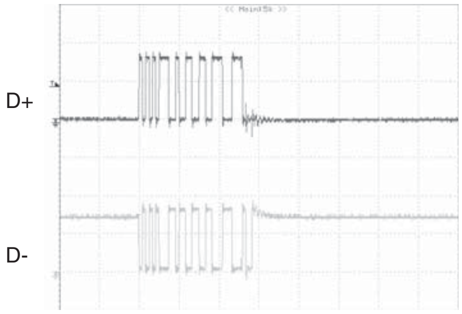
	IC801	IC701 (5 V → 3 V)		CN701 (CN702)
USBDAI	Pin 44	Pin 11	Pins 12,13	Pin 6

	IC801	IC702 (3 V → 5 V)		CN701 (CN702)
USBDAO	Pin 45	Pin 2	Pin 18	Pin 5

* Make a confirmation with USB memory or iPod* connected.
* The iPod that can be used for this product is iPod 5G, iPod nano, iPod classic and iPod touch (as of April 1, 2008).

Note :
When the usable USB memory or iPod is connected, the waveform shown on right side can be observed in D-/D+.

Fig.

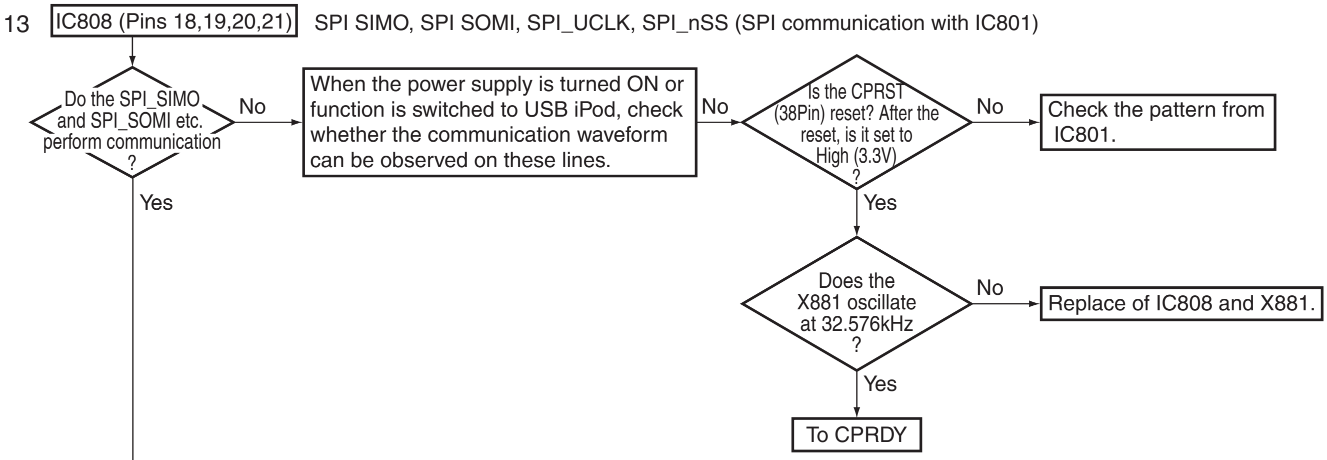


X: 1 µsec/div, Y: 2 V/div

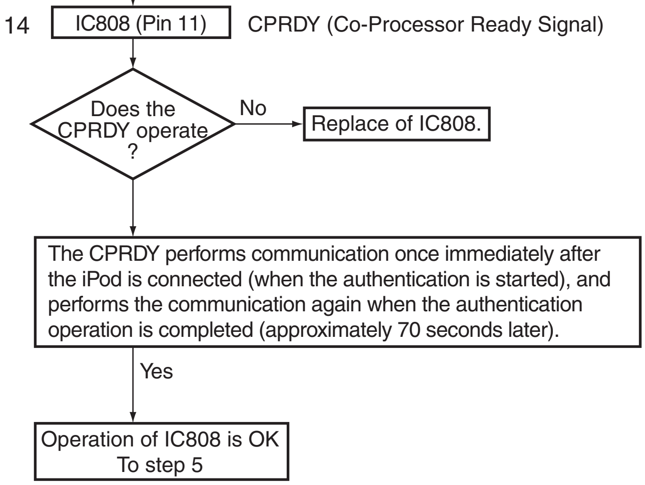
As it is USB2.0 (FS),
the P-P value is approximately 3 to 3.5V.

Step 4: iPod authentication process

When the USB playback is available and only the iPod cannot be played
* Connect the iPod and make a confirmation.


13
IC808 (Pins 18,19,20,21)
SPI SIMO, SPI SOMI, SPI_UCLK, SPI_nSS (SPI communication with IC801)
Do the SPI_SIMO and SPI_SOMI etc. perform communication ?
No
Yes
No
Is the CPRST (38Pin) reset? After the reset, is it set to High (3.3V) ?
No
Yes
Check the pattern from IC801.
Does the X881 oscillate at 32.576kHz ?
No
Yes
Replace of IC808 and X881.
To CPRDY

When the power supply is turned ON or function is switched to USB iPod, check whether the communication waveform can be observed on these lines.

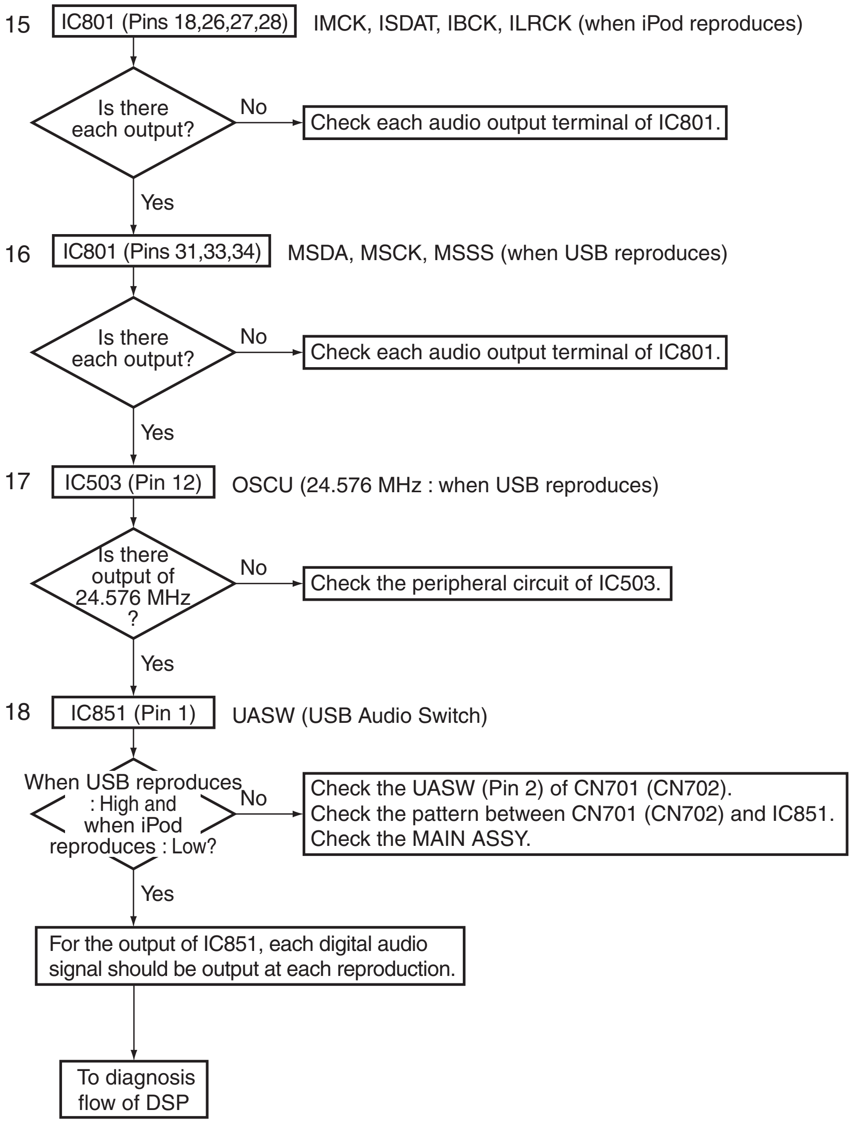

14
IC808 (Pin 11)
CPRDY (Co-Processor Ready Signal)
Does the CPRDY operate ?
No
Replace of IC808.
Yes
Operation of IC808 is OK
To step 5

The CPRDY performs communication once immediately after the iPod is connected (when the authentication is started), and performs the communication again when the authentication operation is completed (approximately 70 seconds later).

Step 5: Digital audio output switching

With this product, the digital audio signal output route from IC801 (USB host) varies depending the USB reproduction and iPod reproduction.
It is controlled and switched by USAW (USB Audio Switch) using the IC851 (logic IC).

	IC801 output Pin	Signal name	Meaning and details
USB playback	-	OSCU	Master clock (24.576MHz) from IC503 of DSP block is used.
	33,36	MSCK	Mass Strage Clock.
	31	MSDA	Mass Strage Data.
	34	MSSS	Mass Strage SS.
iPod playback	18	IMCK	iPod Master Clock.
	26	ISDAT	iPod Serial Data.
	27	IBCK	iPod Bit Clock.
	28	ILRCK	iPod LR Clock.

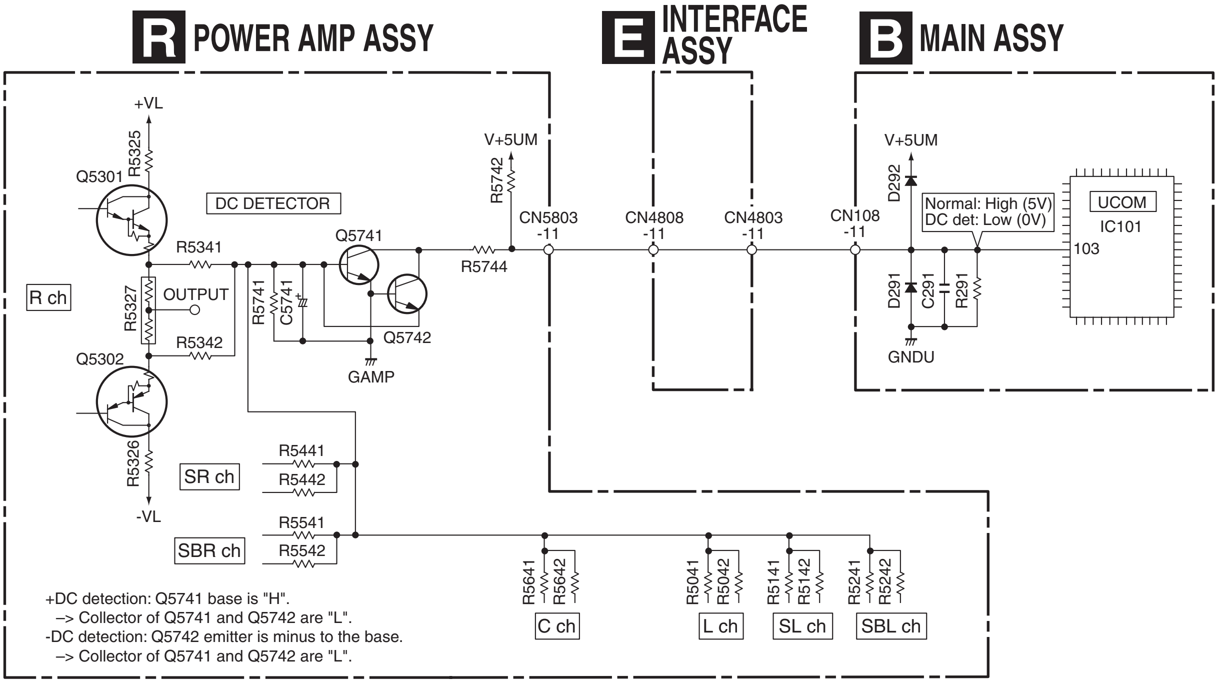

15
IC801 (Pins 18,26,27,28)
IMCK, ISDAT, IBCK, ILRCK (when iPod reproduces)
Is there each output?
No
Check each audio output terminal of IC801.
Yes
16
IC801 (Pins 31,33,34)
MSDA, MSCK, MSSS (when USB reproduces)
Is there each output?
No
Check each audio output terminal of IC801.
Yes
17
IC503 (Pin 12)
OSCU (24.576 MHz : when USB reproduces)
Is there output of 24.576 MHz ?
No
Check the peripheral circuit of IC503.
Yes
18
IC851 (Pin 1)
UASW (USB Audio Switch)
When USB reproduces : High and when iPod reproduces : Low?
No
Check the UASW (Pin 2) of CN701 (CN702).
Check the pattern between CN701 (CN702) and IC851.
Check the MAIN ASSY.
Yes
For the output of IC851, each digital audio signal should be output at each reproduction.
To diagnosis flow of DSP

5.2 CIRCUIT DESCRIPTION

[1] Protection Circuit Process List

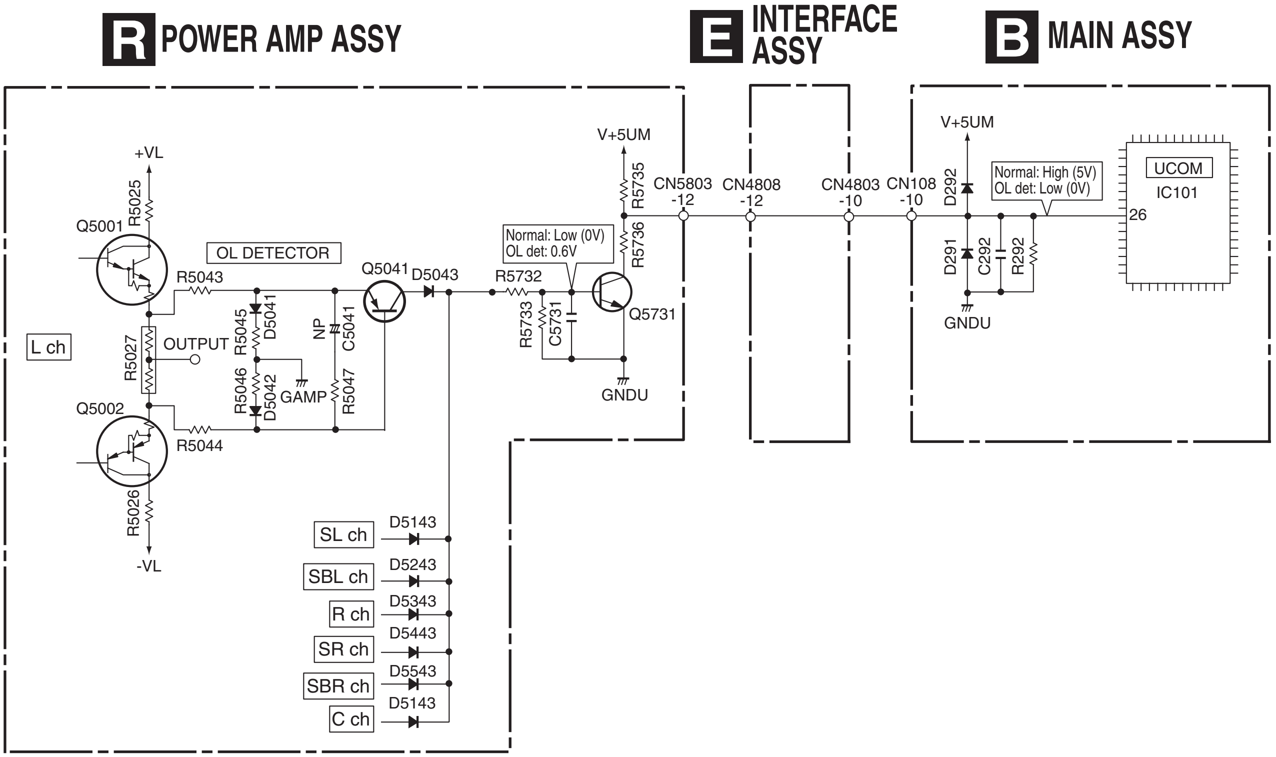
Item	Purpose	Detection Method	Process	Warning Indication	Remarks
DC detection	To detect amplifier damage (defect status) A process to protect speakers (for protection of connected external devices)	Detects when the DC_PROTECT port becomes "L". (Pin 103 of IC101)	Turns muting on and speaker relay off, then turns off the power after 3 seconds. Then flashes MCACC indicator.	Flashing "AMP ERR" for 3 seconds.	Once detected and turned the power off, input a key never again. If the DC_DET port becomes "H" within 3 seconds, the unit returns to normal condition automatically.
AMP overload	To detect overloading (abnormal status) With low-load driving or a short circuit of the speaker terminals (for protection of the amplifier)	Detects when the OL_DET port becomes "L" (checks by interrupt). (Pin 26 of IC101)	Turns muting on and speaker relay off, and immediately turns off the power. Then flashes PHASE CONTROL indicator.	None	
Overheat detection	Self reset type protection feature by temperature-rise of heat sink	Detects when the TEMP2 port becomes "H" . (Pin 24 of IC3004)	Turns muting on and speaker relay off, then turns off the power after 3 seconds.	Flashing "OVERHEAT" for 3 seconds.	If the TEMP2 port becomes "L" within 3 seconds, the unit returns to normal condition automatically.
12V trigger failure detection	To detect the shortcircuit of 12V trigger output (load more than 50mA) (for protection of the amplifier)	Detects when the 12VDET port decoms "H". (Pin 122 of IC101)	Turns 12V trigger output to off.	Flashing "12V TRG ERR"	Continue showing warning. Release the FL indication by switching the INPUT SEL or the turns the power off.

■ DC Detection Circuit


R POWER AMP ASSY
E INTERFACE ASSY
B MAIN ASSY
+VL
R5325
Q5301
DC DETECTOR
R5341
Q5741
V+5UM
R5742
R5744
CN5803 -11
CN4808 -11
CN4803 -11
CN108 -11
R ch
R5327
OUTPUT
R5741
C5741
Q5742
R5342
Q5302
GAMP
R5326
-VL
SR ch
R5441
R5442
SBR ch
R5541
R5542
R5641
R5642
C ch
R5041
R5042
L ch
R5141
R5142
SL ch
R5241
R5242
SBL ch
V+5UM
D292
Normal: High (5V)
DC det: Low (0V)
UCOM
IC101
103
D291
C291
R291
GNDU

+DC detection: Q5741 base is "H".
–> Collector of Q5741 and Q5742 are "L".
-DC detection: Q5742 emitter is minus to the base.
–> Collector of Q5741 and Q5742 are "L".

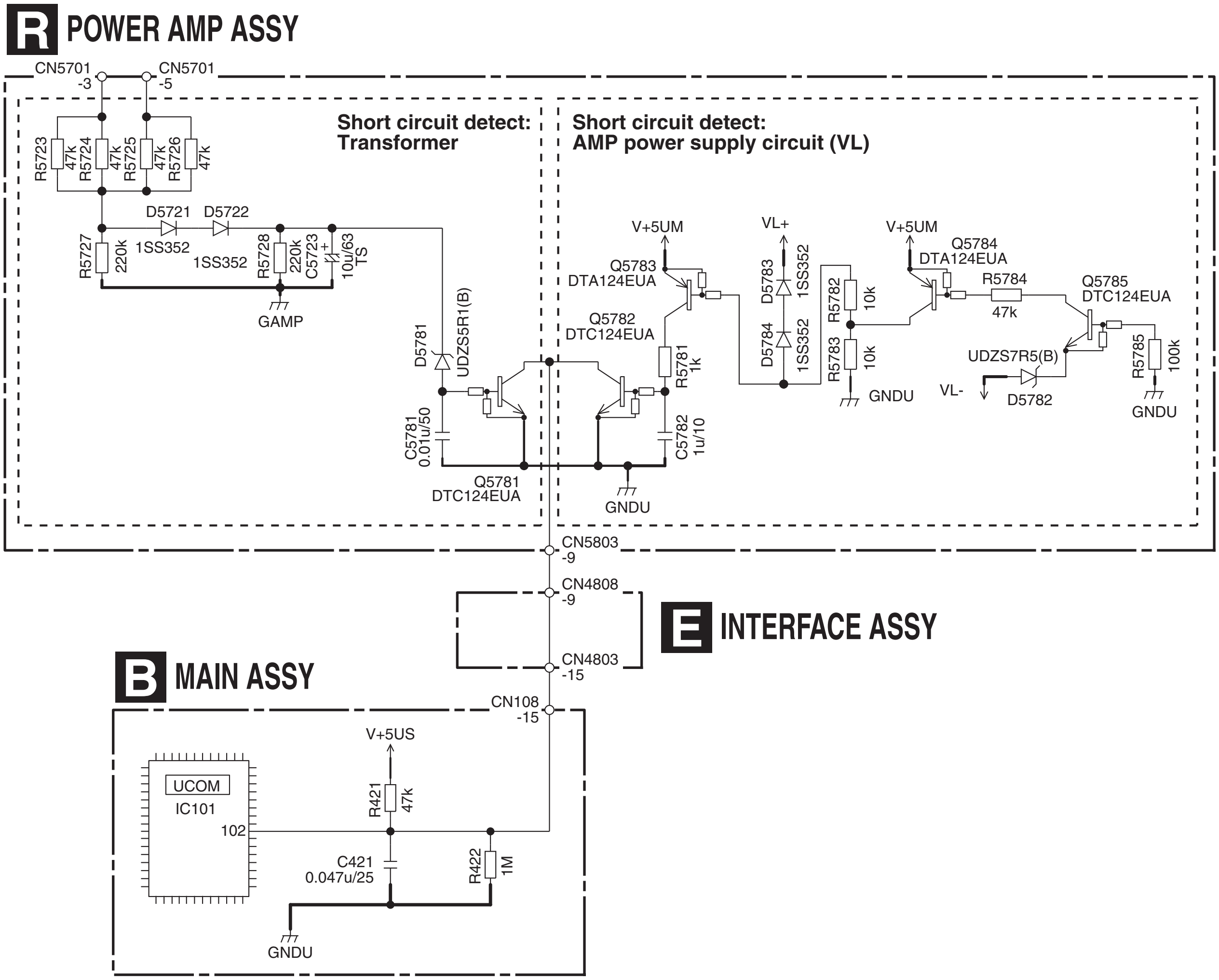
■ OL (Over Load) Detection Circuit


R POWER AMP ASSY
E INTERFACE ASSY
B MAIN ASSY
+VL
R5025
Q5001
OL DETECTOR
R5043
Q5041
D5043
R5732
Normal: Low (0V)
OL det: 0.6V
V+5UM
R5735
R5736
Q5731
R5733
C5731
GNDU
L ch
R5027
OUTPUT
R5045
D5041
NP
C5041
R5046
D5042
GAMP
R5047
Q5002
R5044
R5026
-VL
SL ch
D5143
SBL ch
D5243
R ch
D5343
SR ch
D5443
SBR ch
D5543
C ch
D5143
CN5803
-12
CN4808
-12
CN4803
-10
CN108
-10
V+5UM
D292
D291
C292
R292
GNDU
Normal: High (5V)
OL det: Low (0V)
UCOM
IC101
26

[2] Protection Circuit Process List (XPROTECT)

Item	Purpose	Detection Method	Process	Warning Indication	Remarks
XPROTECT	AMP power supply circuit and Transformer short circuit detect. (defect status) Observe CN5701 pin3 or pin5 voltage, VL+ and VL-	Detects when the XPROTECT port becomes "L". (Pin 102 of IC101)	Turns muting on and speaker relay off, and immediately turns off the power. Then flashes DIGITAL PRECISION PROCESSING indicator.	None	Once detected and turned the power off, input a key never again.

■ XPROTECT Circuit


R POWER AMP ASSY
CN5701 -3
CN5701 -5
Short circuit detect: Transformer
Short circuit detect: AMP power supply circuit (VL)
R5723 47k
R5724 47k
R5725 47k
R5726 47k
D5721 D5722
R5727 220k
1SS352
1SS352
R5728 220k
C5723 10u/63 TS
GAMP
D5781 UDZS5R1(B)
C5781 0.01u/50
Q5781 DTC124EUA
V+5UM
Q5783 DTA124EUA
Q5782 DTC124EUA
R5781 1k
C5782 1u/10
GNDU
VL+
D5783 1SS352
D5784 1SS352
R5782 10k
R5783 10k
GNDU
V+5UM
Q5784 DTA124EUA
R5784 47k
Q5785 DTC124EUA
UDZS7R5(B)
VL-
D5782
R5785 100k
GNDU
CN5803 -9
CN4808 -9
E INTERFACE ASSY
CN4803 -15
B MAIN ASSY
CN108 -15
V+5US
UCOM
IC101
102
R421 47k
C421 0.047u/25
R422 1M
GNDU

6. SERVICE MODE

6.1 TEST MODE

[1] Version indication

[Purpose]

The versions for various microcomputers and DSP firmware are displayed.

[How to enter/exit]

During Standby mode, simultaneously press and hold the “STANDBY/ON” and “MULTI CH IN” keys for 5 seconds to enter this mode.

This mode is automatically exited when the indications of all versions have finished.

[Basic operations]

FL Display	Description of Version Indications	Duration (sec.)	Devices that can be considered generally normal, with the corresponding indications
POWER OFF			
M0.501 E0.501	Mx.xxx : Main microcomputer Ex.xxx : EVENT microcomputer	5	Main microcomputer and EVENT microcomputer
H0.503	Hx.xxx : HDMI microcomputer	5	HDMI microcomputer
f0.515	fx.xxx : DSP Firm version	5	DSP firmware
03TXH/KU/CA		5	model/destination
Normal display			

[Notes]

1. If the version indication becomes "**," a failure in communications between the corresponding microcomputers or a failure in the corresponding microcomputers is likely.
2. In this submode, the user settings will not be cleared.

[2] Detected protection history

[Purpose]

The numbers of detections for various protection processes are displayed.

[How to enter/exit]

During Standby mode, simultaneously press and hold “STANDBY/ON” and “BD” keys for 5 seconds to enter this mode.

[Basic operations]

FL Display	Description of Indications	Duration (sec.)
POWER OFF ↓		
DC : 000 ↓	Number of DC detections	3
OVER: 010 ↓	Number of overload detections	3
CON : 002 ↓	Number of detections of cord disconnection (DC and OL DET line) (simultaneous detections of DC and OVERLOAD)	3
FAN : 000 (*) ↓	Number of detections of fan abnormalities	3
TEMP: 255 ↓	Number of detections of abnormal temperature	3
Normal display		

”FAN : 000” is
always displayed. (This model has no FAN)

[Description]

When the keys are pressed, the numbers of DC detections, overload detections, detections of connectors disconnection inside unit (It is detected by both DC and OVERLOAD detections.), detections of fan abnormalities, and detections of abnormal temperature are displayed for 3 seconds each, in that order.
The maximum value of each detections is 255.

[3] Error indications when an abnormality in the amplifier system is detected

[Purpose]

An error message is displayed when an abnormality in the amplifier system is detected.

[Error Messages]

FL Display	Status	Duration (sec.)
AMP ERR	When AMP DC is detected	Flashes 3 times.
AMP OVERHEAT	When a thermal shutdown (abnormal temperature), etc. is detected	Flashes 3 times.
12V TRG ERR	When the 12V trigger circuit is short-circuited	Flashes
HDMI NG	When an error is detected during communication with the HDMI microcomputer	Flashes
HDCP ERROR	When an HDCP ERR is detected.	Flashes 5 seconds.
NOT SUPPORT	When the monitor outputs a non supported video format.	Flashes
USB ERROR1	When the overload USB device(over 500mA) is connected	Flashes

[Description]

AMP ERROR : After a failure in the amplifier block or high DC output is detected, the shutdown process starts, then the power will be shut off. Then the MCACC LED will flash. The power cannot be turned on again. If you wish to turn on the unit after a shutdown activated by DC detection, enter DC detection cancellation mode, by proceeding with the steps described in "How to enter release mode" below.

AMP OVERHEAT : The temperature of the amplifier is abnormally high.

12V TRG ERR : The 12V trigger output is short-circuited.

After a failure is detected, the shutdown process starts, then the power will be off. The power can be turned on again in Normal mode.

HDMI NG : There is no communication response from the HDMI u-com.

HDCP ERR : The monitor is non-HDCP type or the monitor is standby state.

NOT SUPPORT : The output resolution is not correspond to the monitor at analog. –>HDMI(scaler exist)

USB ERROR1 : The connected USB device is overload

[How to enter release mode]

Press and hold "STANDBY/ON" and "AUTO SURR" keys on the front panel simultaneously for 2 seconds in standby mode.

7. DISASSEMBLY

Note 1: Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

Note 2: For performing the diagnosis shown below, the following jigs for service is required:

- 11P board to board extension jig cable (GGD1576)
- 19P board to board extension jig cable (GGD1577X2)
- 11P FFC (GGD1578)

1. Before the Power Amp Assy is removed

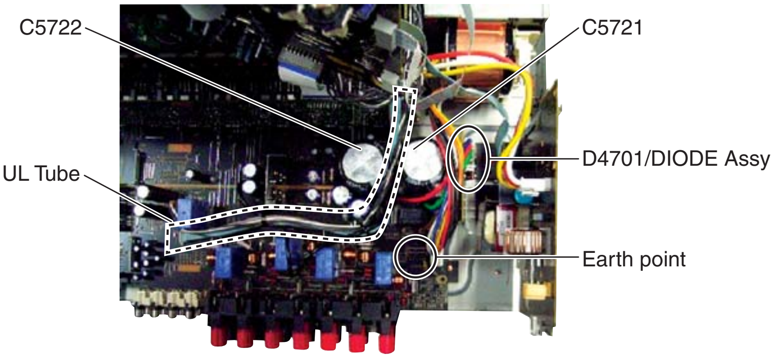
Before the Power Amp Assy is removed, discharge C5721 and C5722 on the POWER AMP Assy, as indicated below.
If you don't, the protectors (P5001 and P5002) on the POWER AMP Assy may be open, and DC voltage may be generated at the power amplifier output, which will result in "AMP ERR."
The discharge operation indicated below is performed when the MAIN Assy and the AUDIO IN Assy are removed temporarily to remove the screws of the Regulators attached to the Chassis for a diagnosis of the POWER AMP Assy B side.

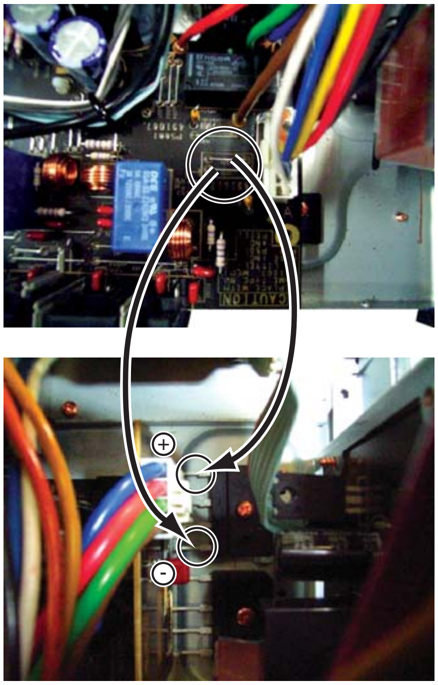
[Procedure]

① Unplug the AC Power Cord.

② Discharge C5721 and C5722 on the POWER AMP Assy by discharging Pin 1 and Pin 4 of D4701on the DIODE Assy to the earth point of POWER AMP Assy.
Note: For discharging, use a load of 100Ω, 3W or more, to protect the IC protectors. Do NOT discharge instantly by short-circuiting.

③ Check that the voltage between the electrodes of each C5721 and C5722 is 1V or less.



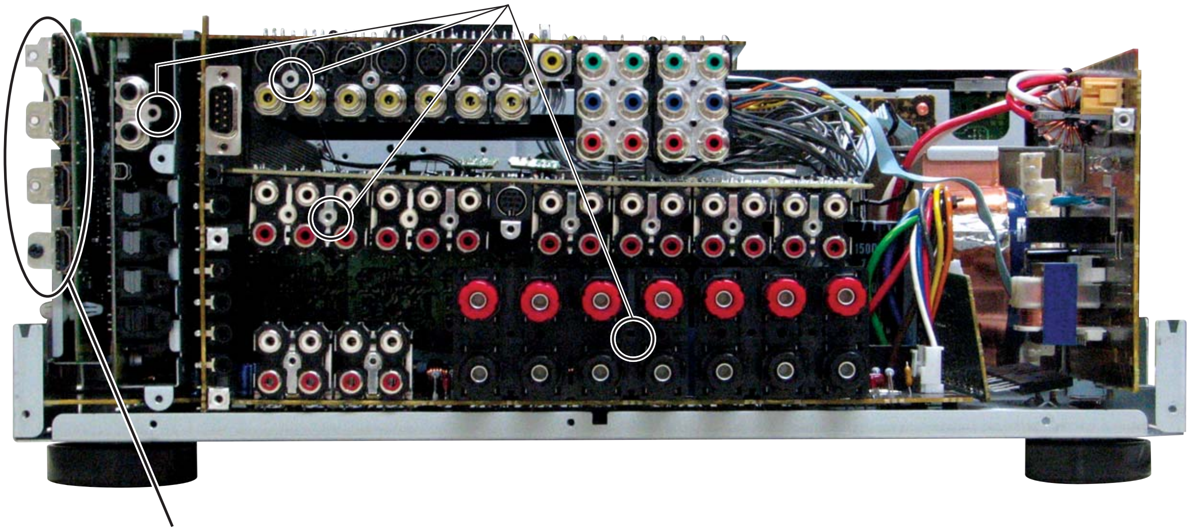


Enlarged view of the GND.

Enlarged view of the D4701 terminal discharge point.

Diode lead
Caution shall be exercised when touching the lead with a short-circuit jig so as not to touch the lead and the chassis simultaneously.

Note : As mentioned below, detach the Rear Panel, re-fasten the screws at the corresponding points, and connect the Chassis to the ground.


Earth point
Points to be connected to the Chassis.

Points to be connected to the Chassis.
Either one.

2. Diagnosis

1 POWER AMP Assy

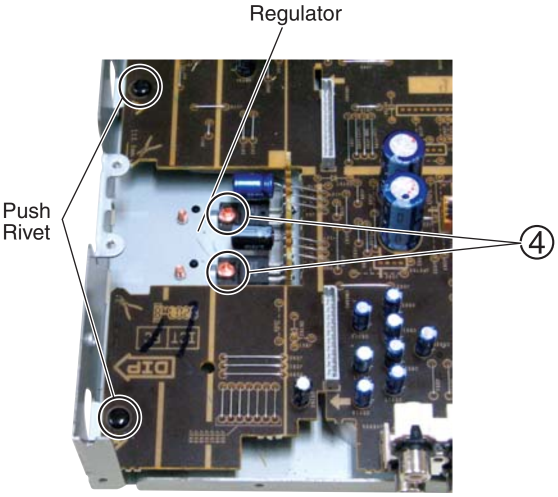
① Remove the Rear Panel.

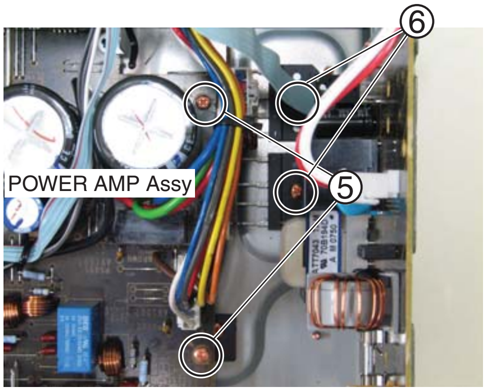
② Remove the MAIN Assy (equipped with HDMI&DVC Assy and DSP&USB Assy) and the AUDIO IN Assy from the INTERFACE Assy.

③ Discharge C5721 and C5722.
(See the "discharge procedures.")

④ Remove the two screws that fix the Regulators attached to the Chassis.

⑤ Remove the two Push Rivets and the two screws that fix the POWER AMP Assy.



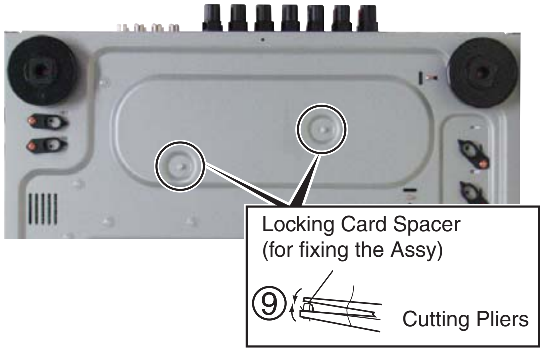


⑥ Remove the two screws that fix the diode of the DIODE Assy.

⑦ Reassembling the MAIN Assy (equipped with HDMI&DVC Assy and DSP&USB Assy) and the AUDIO IN Assy to the INTERFACE Assy.

⑧ Reassembling the Rear Panel.
(Keep a space for earth and about six to seven screws fixing places. Do not attach screws with the Chassis.)

⑨ Remove the Locking Card Spacer from the Chassis using Cutting Pliers.

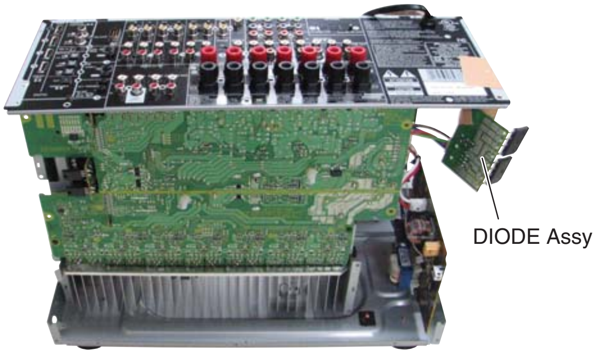


⑩ Remove the four screws that fix the Heat Sink V5S.

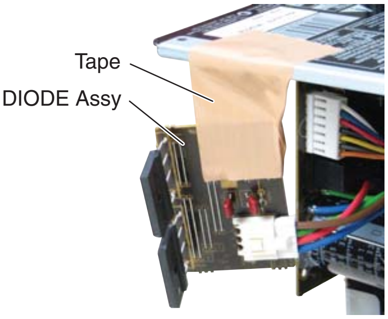
⑪ Cut the Binder.

⑫ Remove the four screws that fix the Power Transformer. Place a high insulating material under the Power Transformer to raise it.

⑬ Raise the block and diagnose the POWER AMP Assy B side.



Caution:
Fix the DIODE Assy to the Rear Panel with Tape so that it will not come closer to other Assy.



Diagnosis

2 MAIN Assy, AUDIO IN Assy, INTERFACE Assy

① Remove the Rear Panel.

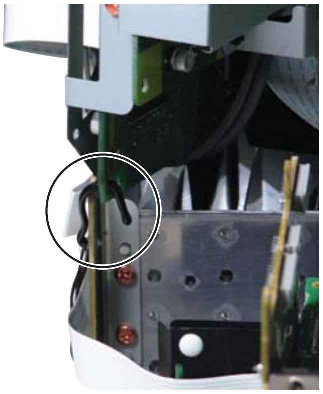
② Remove the screw that fix the MAIN Assy and the Wire Styling of the PCB Binder.

③ Remove the two screws that fix the HDMI Shield V5S.

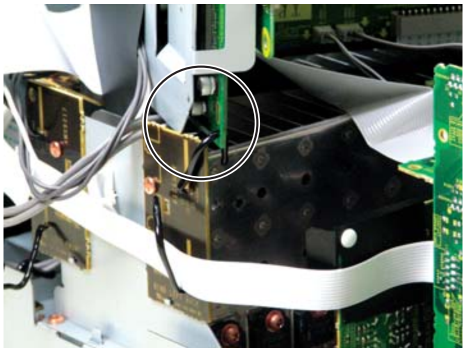
④ Connect the four extension jig cables (two 19P board to board extension jig cable, one 11P board to board extension jig cable and 11P FFC).

⑤ Raise the MAIN Assy with the HDMI&DVC Assy and DSP&USB Assy attached and place it on the Heat Sink V5S. Fix the lower part of the HDMI&DVC Assy with the PCB Binder.

Position of Wire Styling

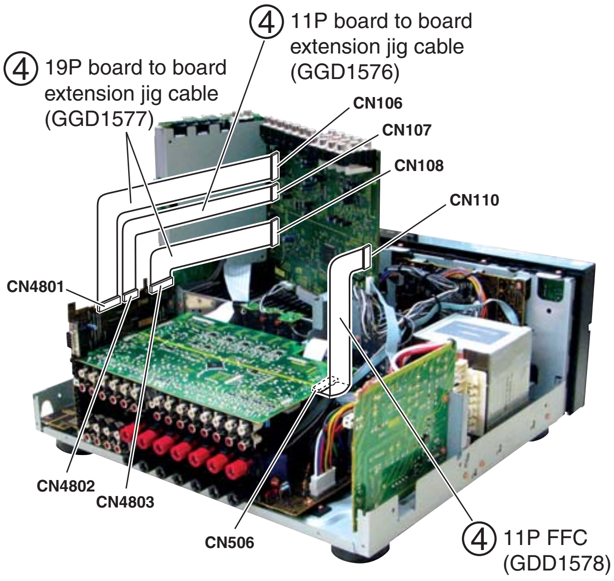


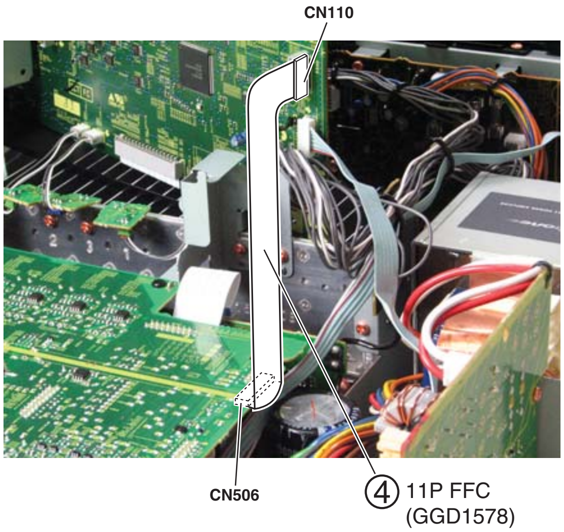
Position of Wire Styling (The above angle is different.)



⑥ Connect the earth point.

⑦ Diagnose the MAIN Assy A side or the AUDIO IN Assy B side, and the INTERFACE Assy.


④ 11P board to board extension jig cable (GGD1576)
④ 19P board to board extension jig cable (GGD1577)
CN106
CN107
CN108
CN110
CN4801
CN4802
CN4803
CN506
④ 11P FFC (GDD1578)


CN110
CN506
④ 11P FFC (GGD1578)

Diagnosis

8. EACH SETTING AND ADJUSTMENT

8.1 HOW TO UPDATE FIRMWARE

[1] MAIN, HDMI and EVENT microcomputer

[Purpose]

Refer to this section when updating the firmware of each microcomputer is required by the service information, etc.

[Necessary Tools]

- PC with a serial port
- RS-232C cable (9-pin to 9-pin, cross)
- Firmware ("mot" extension)
- Program for updating (ufu.exe: ver. 1.08)

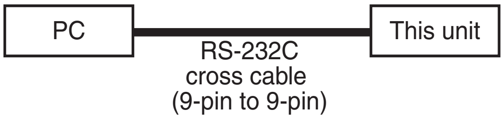
- RS-232C straight cable (9pin female ↔ 25pin male)
- RS-232C Interface jig : GGF1348
- 7 pin FFC : VDA1681

for VSX-1018AH

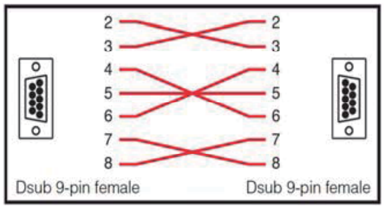
[Connections (except VSX-1018AH)]

Connect as indicated in the figure right:

(MAIN microcomputer)
(EVENT microcomputer)
(HDMI microcomputer)


PC
This unit
RS-232C
cross cable
(9-pin to 9-pin)

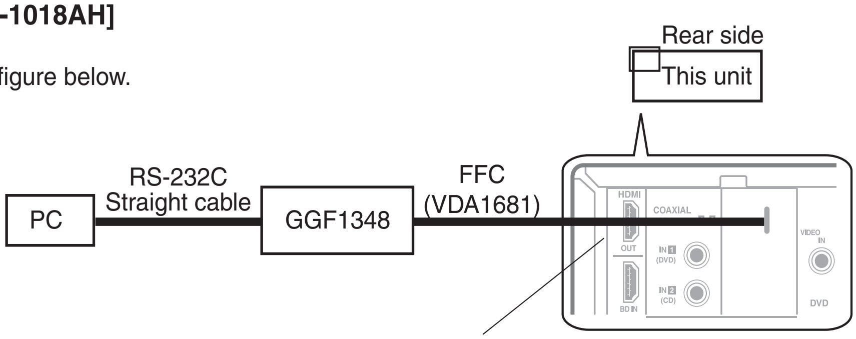
Pin-out diagram of RS-232C cross cable


2
3
4
5
6
7
8
2
3
4
5
6
7
8
Dsub 9-pin female
Dsub 9-pin female

[Connections for VSX-1018AH]

Connect as shown in the figure below.

(MAIN microcomputer)
(EVENT microcomputer)
(HDMI microcomputer)


Rear side
This unit
PC
RS-232C
Straight cable
GGF1348
FFC
(VDA1681)
HDMI
OUT
BD IN
COAXIAL
IN 1 (DVD)
IN 2 (CD)
VIDEO IN
DVD

Slit for an HDMI
for downloading

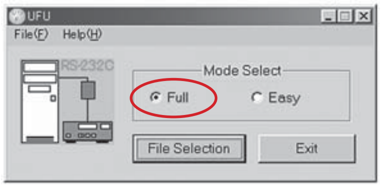
FFC CONTACT SIDE : RIGHTWARD

[Note]

Do NOT disconnect the AC power cords of this unit nor the PC.

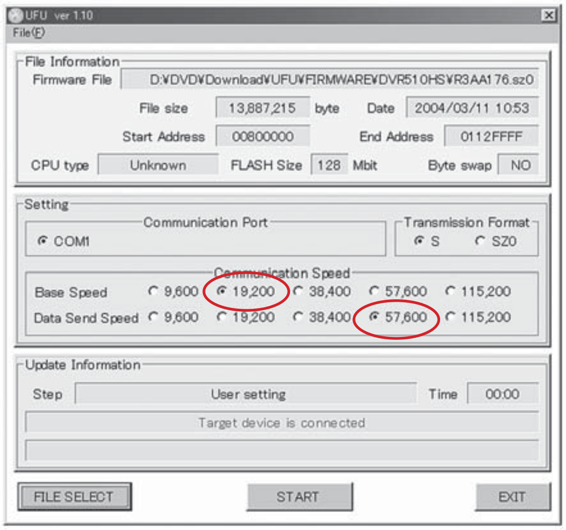
[Procedures]

1. Set the main volume level to "---dB" then turn off the unit (Standby mode).
2. Connect the PC and the unit as shown in "Connections".
3. **MAIN ucom:**
   Simultaneously press and hold the "STANDOBY/ON" and "iPod USB" keys for about 5seconds.
   The unit is turned on and "MAIN DOWNLOAD" is displayed.
   HDMI ucom:
   Simultaneously press and hold the "STANDOBY/ON" and "FM/AM" keys for about 5seconds.
   The unit is turned on and "HDMI DOWNLOAD" is displayed.
   EVENT ucom:
   Simultaneously press and hold the "STANDOBY/ON" and "VIDEO" keys for about 5seconds.
   The unit is turned on and "EVENT DOWNLOAD" is displayed.
4. Double-click the "UFU.exe".
5. Check that "Full" is selected in Mode Select.
6. Select the firmware file (.mot file) for updating each ucom.
   Note: Do NOT download the firmware file for other ucom.
7. Select the communication speed.
   - Basic speed: 19200
   - Data transfer speed: 57600
8. Click the "START" button.
9. "Completed" is displayed in the "UFU.exe" window.
10. Disconnect then reconnect the AC power cord of the unit. If the unit is not reset, retry from step2.
11. Check the version.
    Please refer to 6.1 TEST MODE "Version indication" and check that the version has been changed to a new one.



Mode Select
● Full ○ Easy

Check that "Full" is selected in Mode Select.



File Information
Firmware File: D:¥DVD¥Download¥UFU¥FIRMWARE¥DVR510HS¥R3AA176.sz0
File size: 13,887,215 byte Date: 2004/03/11 10:53
Start Address: 00800000 End Address: 0112FFFF
CPU type: Unknown FLASH Size: 128 Mbit Byte swap: NO

Setting
Communication Port: ● COM1
Transmission Format: ● S ○ SZ0
Communication Speed
Base Speed: ○ 9,600 ● 19,200 ○ 38,400 ○ 57,600 ○ 115,200
Data Send Speed: ○ 9,600 ○ 19,200 ○ 38,400 ● 57,600 ○ 115,200

Update Information
Step: User setting Time: 00:00
Target device is connected

Select the communication speed.
- Base Speed: 19200
- Data Send Speed: 57600

[2] DSP FLASH ROM

[Purpose]

Refer to this section when updating the DSP flash ROM firmware is required by the service information, etc.
It is able to update the DSP flash ROM firmware by playing back a CD-R which is recorded a DSP firmware (.wav file) via digital connection.

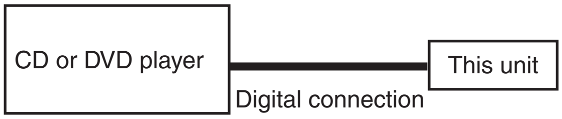
[Necessary Tools]

- DVD player
- Coaxial cable or Optical cable
- Update disc (CD-R disc)

Note:
Please use DVD player based on MTK system (DV-270, 370, 373, 575K, 280, 380, 383, etc.),Mitsubishi system (DV-59AVi, 868AVi, S969AVi, 668AVi, etc.) and Fujitsu system (DV-343, 444, 545, etc.).
DO NOT use DVD player based on ST system (DV-353, 454, 250, 400, 555K, 260, 363, 464, 466, 563, etc.).
The factory confirmed that DVD players based on ST system cannot send the correct data to the receiver.
You can check the base system of our DVD players on the firmware version list at PSN web (Niis).

[Connections]

Connect as shown in the figure below.



[Preparations]

Burn the DSP flash ROM firmware (.wav file) to a CD-R disc using commercially available burning software.
It is necessary to select the writing format to "For music player", not "For PC data".
Note:
Depending on a burning software, data on a CD-R may not be worked for updating the DSP flash ROM.
If the HDMI indicator does not flash when playing back a update disc, the disc is not able to use for updating.
Burn the DSP flash ROM firmware to a CD-R disc, using other burning software.

[Note]

- Do NOT disconnect the AC power cords of this unit and the CD/DVD player during a updating.
- "OK" is appeared on the FL display when updating is completed.
  If the "OK" is not appeared, updating has not been completed correctly. Be sure to perform the updating procedures again.

[Procedures]

1. Check the version of the DSP flash ROM (1st DSP) and the DSP ucom.
   Please refer to 6.1 TEST MODE "Version indication".

2. Connect a CD or DVD player
   (1) Connect the CD or DVD player for updating to any digital input jack of this unit.
   (2) Select the input source to the connected source by pressing input source key.
   (During the default setting, COAX-1 belongs to DVD, OPT-1 belongs to TV SAT.)

3. Confirm that the digital input signal is locked on the AV receiver.
   (1) Play back the update disc on the CD/DVD player.
   (2) Set the signal select setting of the AV receiver to the "Auto" then confirm that the Signal Select indicator is Digital.

[Procedures]

4. Enter the DSP flash ROM updating mode.
   (1) Skip to the beginning (time:0:00) of the first track of the update disc and set to Pause.
   (2) Set the main volume level of the AV receiver to "---dB" then turn off the unit (Standby mode).
   (3) Simultaneously press and hold the "STANDOBY/ON" and "XM/SIRIUS" keys for about 5seconds.
   The unit is turned on and "DSPF DOWNLOAD" is displayed.

5. Play back the first track of the update disc.
   (1) Release Pause mode of the CD/DVD player and start to play back the DSP update program stream.
   (2) After 5-10 seconds, the HDMI indicator starts flashing. Be sure to check it.
   Flashing of the HDMI indicator means that the unit is receiving a correct streem and the updating is in progress.

   Note:
   Do NOT turn off the unit while the HDMI indicator is flashing. If the unit is turned off, be sure to go back to Step 4.
   (As the Flash ROM goes into unusual status if the power is off during updating, the unit may not start properly.)
   Even in such a case, you can restore the unit by performing Steps 4 to 7.

6. Wait until "OK" is appeared on the FL display.
   (1) It takes about 2 minutes for updating.
   (2) After confirming the "OK", stop or pause the CD/DVD player and wait for 5 seconds then turn off the power of the AV receiver (Standby mode).

7. Check the version of the DSP flash ROM (1st DSP).
   Please refer to 6.1 TEST MODE "Version indication" and check that the version has been changed to a new one.

[3] Troubleshooting of DSP FLASH ROM UPDATE

Symptoms	Items to be checked
The HDMI indicator does not start flashing, and 10 seconds or more has elapsed after a updating stream is input.	Is DSP writing mode entered? (Simultaneously press and hold the "STANDOBY/ON" and "XM/SIRIUS" keys.)
	Is DIR locked? –> You can check this on the Signal Select indicator if the input is set to Auto and Digital. If DIR is not locked, check the input function and digital connections between the player and this unit.
	Is the stream (Track No., etc.) being played back correct?
	Are compressed audio signals, such as WMA, being input when or after writing mode is entered ? –> As soon as the compressed audio signals are input, writing mode is exited. It is recommended that playback be paused at the beginning of the track of a updating stream then writing mode is entered by simultaneous pressing of the keys. Release Pause mode after entering of writing mode is confirmed.
Writing mode is not entered upon simultaneous pressing of the "STANDOBY/ON" and "XM/SIRIUS" keys.	Is the volume control of the receiver set to -∞dB? If not, set it to -∞dB (- - -).
	Reset the receiver then enter writing mode. **Note:** All the user data stored in the receiver are cleared when the receiver is reset.
"OK" is not displayed.	Is the track played back from the beginning to the end? –> With the receiver in writing mode, be sure to play back the stream track twice.
	If an error is generated because any scratches on the disc, "OK" is not displayed. –> In such a case, play back the same stream stored on another track as backup.

A

B

C

D

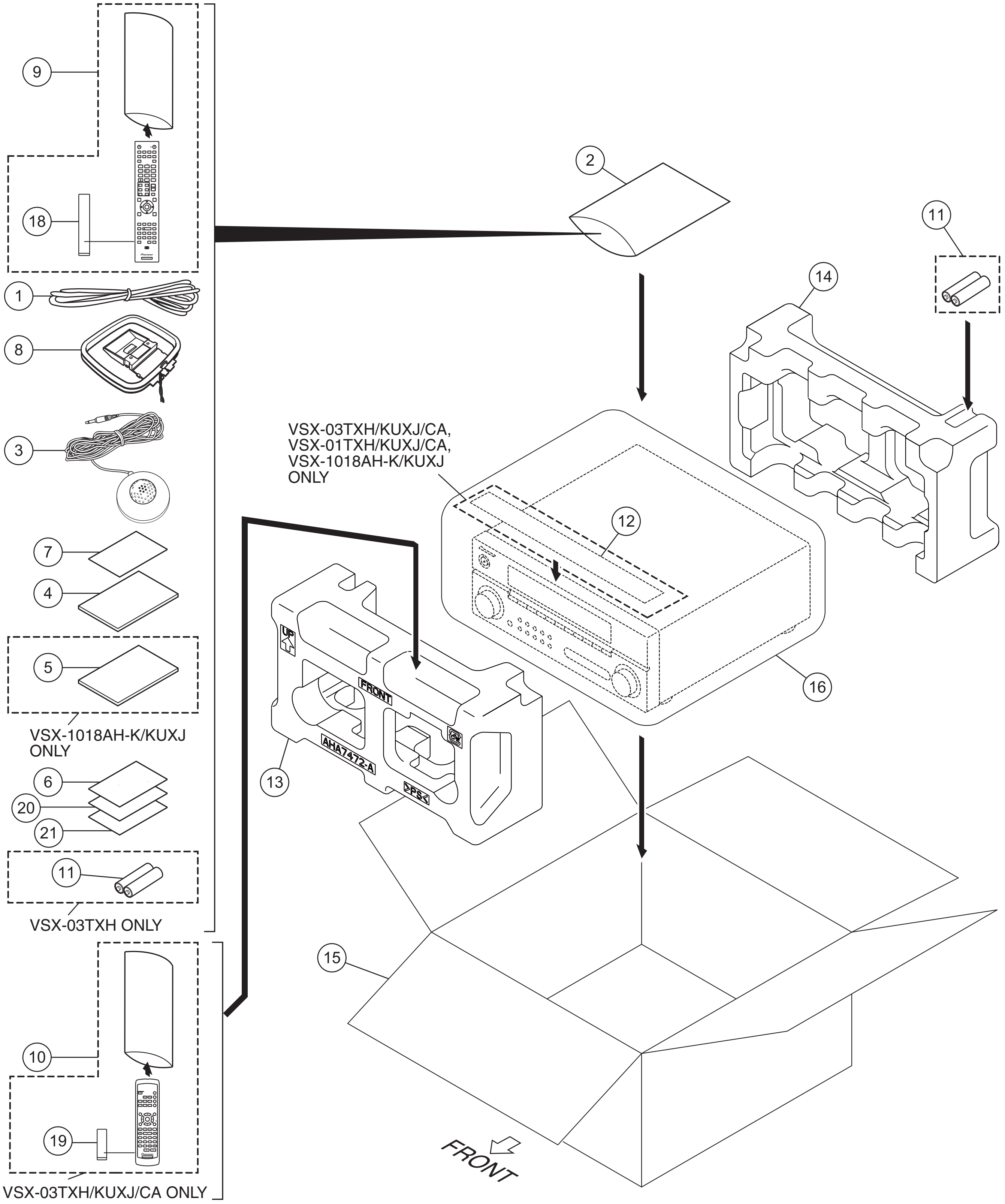
E

F

9. EXPLODED VIEWS AND PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on product are used for disassembly.*
- *For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)*

9.1 PACKING SECTION


9
18
1
8
3
7
4
5
VSX-1018AH-K/KUXJ ONLY
6
20
21
11
VSX-03TXH ONLY
10
19
VSX-03TXH/KUXJ/CA ONLY
2
11
14
VSX-03TXH/KUXJ/CA,
VSX-01TXH/KUXJ/CA,
VSX-1018AH-K/KUXJ
ONLY
12
UP
FRONT
AHA7472-A
>PS<
13
16
15
FRONT

PACKING SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	FM Wire Antenna	ADH7030
NSP	2	Polyethylene Bag	AHG7117
	3	Setup Microphone (for Auto MCACC setup)	APM7008
	4	Operating Instructions (English)	See Contrast table(2)
	5	Operating Instructions (Spanish)	See Contrast table(2)
	6	Caution Sheet (Spanish/English)	ARM7083
NSP	7	Warranty Card	See Contrast table(2)
	8	AM Loop Antenna	ATB7013
	9	Remote Control Unit	See Contrast table(2)
	10	Sub Remote Control Unit	See Contrast table(2)
NSP	11	Dry Cell Battery AA/LR6	VEM1031
	12	Protection Sheet LX	See Contrast table(2)
	13	Front Pad V5SEL	AHA7472
	14	Rear Pad V5SEL	AHA7473

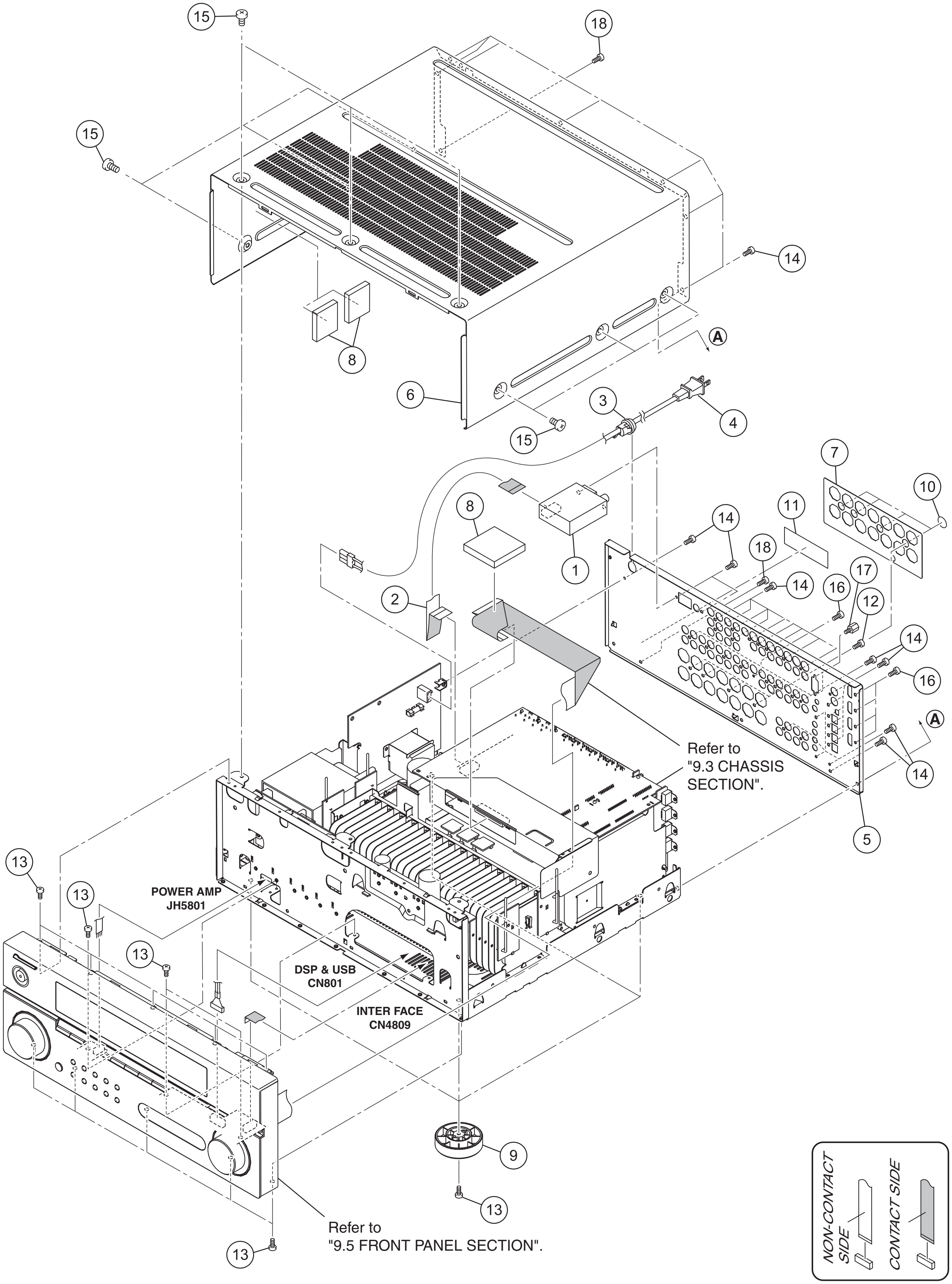
Mark	No.	Description	Part No.
	15	Packing Case	See Contrast table(2)
	16	Packing Sheet	RHC1023
	17	• • • • •	• • • • •
	18	Battery Cover	VZN1025
	19	Battery Cover	AZN8018
	20	Errata V5S KU	See Contrast table(2)
	21	Errata V5S UL	See Contrast table(2)

(2) CONTRAST TABLE

VSX-03TXH/KUXJ/CA, VSX-9130TXH-K/KUXJ, VSX-01TXH/KUXJ/CA and VSX-1018AH-K/KUXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-03TXH/ KUXJ/CA	VSX-9130TXH-K/ KUXJ	VSX-01TXH/ KUXJ/CA	VSX-1018AH-K/ KUXJ
	4	Operating Instructions (English)	ARB7395	ARB7396	ARB7399	ARB7400
	5	Operating Instructions (Spanish)	Not used	Not used	Not used	ARC7832
NSP	7	Warranty Card	ARY7007	ARY7045	ARY7007	ARY7045
	9	Remote Control Unit	AXD7517	AXD7525	AXD7517	AXD7525
	10	Sub Remote Control Unit	AXD7529	Not used	Not used	Not used
	12	Protection Sheet LX	AEH7030	Not used	AEH7030	AEH7030
	15	Packing Case	AHD8574	AHD8575	AHD8580	AHD8581
	20	Errata V5S KU	Not used	Not used	Not used	ARX7112
	21	Errata V5S UL	Not used	ARX7116	Not used	ARX7116

9.2 EXTERIOR SECTION


15
18
15
14
A
8
6
3
4
15
7
10
8
11
14
18
1
14
16
17
2
12
14
16
A
Refer to
"9.3 CHASSIS
SECTION".
14
5
13
13
POWER AMP
JH5801
13
DSP & USB
CN801
INTER FACE
CN4809
9
13
Refer to
"9.5 FRONT PANEL SECTION".
13
NON-CONTACT
SIDE
CONTACT SIDE

EXTERIOR SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	FM/AM Tuner Unit	AXX7250
	2	11P FFC/60V (J56)	ADD7639
	3	Cord Stopper	CM-22C
⚠	4	AC Power Cord	VDG1075
	5	Rear Panel	See Contrast table(2)
	6	Bonnet B V5SEL	AZN8034
	7	SP Sheet V5S	AEC7605
	8	Top Cushion	AED7121
	9	Insulator	See Contrast table(2)
	10	Cushion Circle 14B	AED7081
NSP	11	LABEL	VRW1629

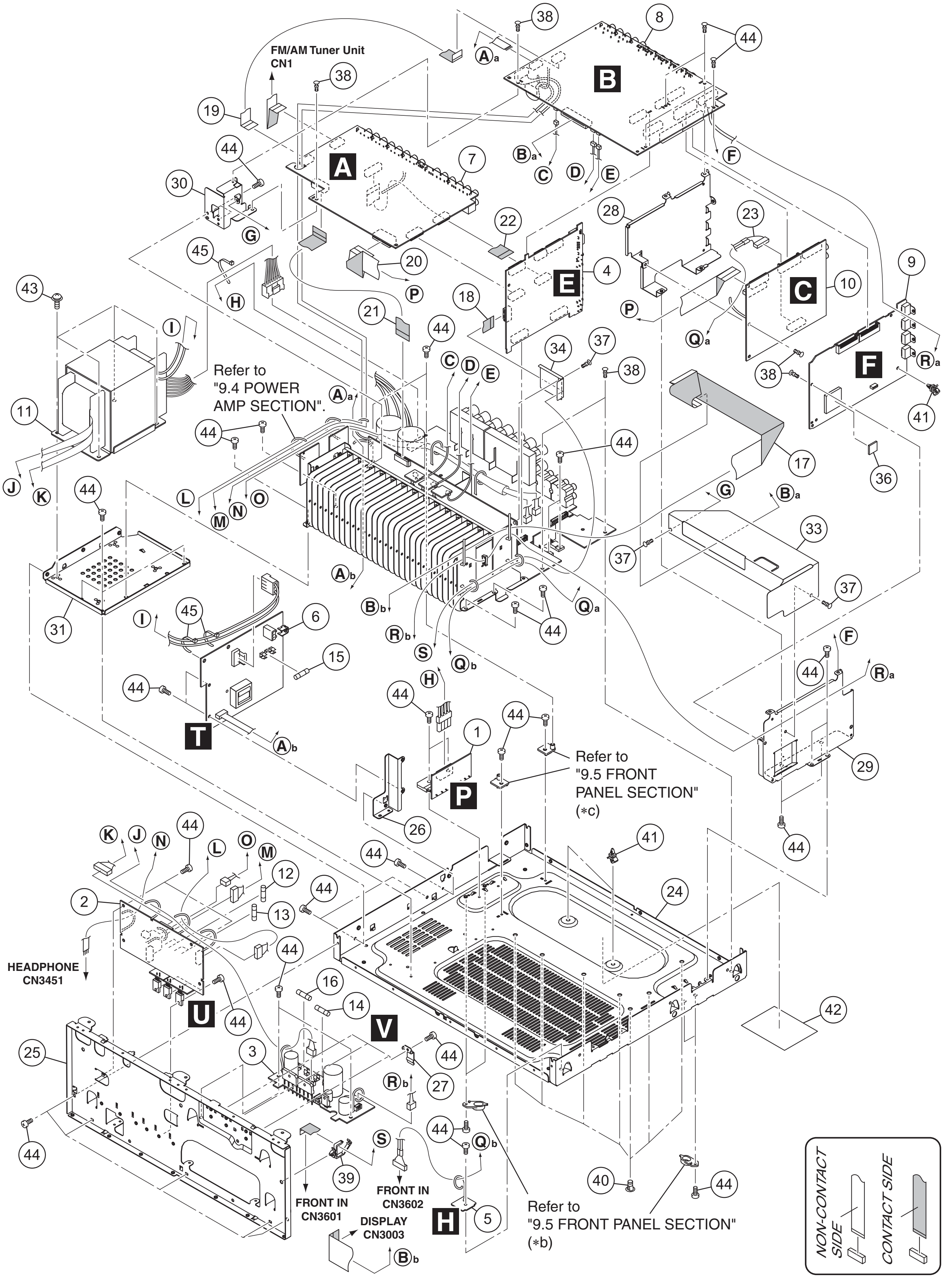
Mark	No.	Description	Part No.
	12	Screw	BBT30P100FCC
	13	Screw	BBZ30P080FCC
	14	Screw	BBZ30P080FTB
	15	Screw	BCZ40P060FTB
	16	Screw	PMZ30P060FTB
	17	Screw 2.85X7	See Contrast table(2)
	18	Screw	IBP30P090FCC

(2) CONTRAST TABLE

VSX-03TXH/KUXJ/CA, VSX-9130TXH-K/KUXJ, VSX-01TXH/KUXJ/CA and VSX-1018AH-K/KUXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-03TXH/ KUXJ/CA	VSX-9130TXH-K/ KUXJ	VSX-01TXH/ KUXJ/CA	VSX-1018AH-K/ KUXJ
	5	Rear Panel	ANC8512	ANC8513	ANC8518	ANC8519
	9	Insulator	AMR7198	PNW2766	AMR7198	PNW2766
	17	Screw 2.85X7	ABA7078	ABA7078	ABA7078	Not used

9.3 CHASSIS SECTION


FM/AM Tuner Unit
CN1
A
B
C
E
F
T
P
U
V
H
Refer to
"9.4 POWER
AMP SECTION".
Refer to
"9.5 FRONT
PANEL SECTION"
(*c)
HEADPHONE
CN3451
FRONT IN
CN3601
FRONT IN
CN3602
DISPLAY
CN3003
Refer to
"9.5 FRONT PANEL SECTION"
(*b)
NON-CONTACT
SIDE
CONTACT SIDE
Aa
Ab
Ba
Bb
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Qa
Qb
Ra
Rb
S
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45

CHASSIS SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	DIODE Assy	AWX8985
	2	REGULATOR Assy	AWX8986
	3	DC/DC Assy	AWX8988
	4	INTERFACE Assy	See Contrast table(2)
	5	BINDER Assy	AWX9120
	6	PRIMARY Assy	AWX9123
NSP	7	AUDIO IN Assy	AWK8050
NSP	8	MAIN Assy	See Contrast table(2)
	9	HDMI & DVC Assy	See Contrast table(2)
	10	DSP & USB Assy	See Contrast table(2)
⚠	11	Power Transformer (T1501)	ATS7418
⚠	12	Fuse (T1.25A) (FU6,FU7)	REK1143
⚠	13	Fuse (T2.5A) (FU8,FU9)	REK1146
⚠	14	Fuse (T5A) (FU4)	REK1150
⚠	15	Fuse (T10A) (FU1)	REK1154
⚠	16	Fuse (T3.5A) (FU5)	REK1155
	17	33P FFC/60V (J51)	ADD7635
	18	11P FFC/60V (J52)	ADD7636
	19	11P FFC/60V (J54)	ADD7637
	20	23P FFC/60V (J55)	ADD7638
	21	17P FFC/60V (J57)	ADD7640
	22	19P FFC/60V (J58)	ADD7641
	23	9P Housing Assy	ADX7619
NSP	24	Chassis V5S	ANA7209
NSP	25	Panel Stay V5SEL	AND7086

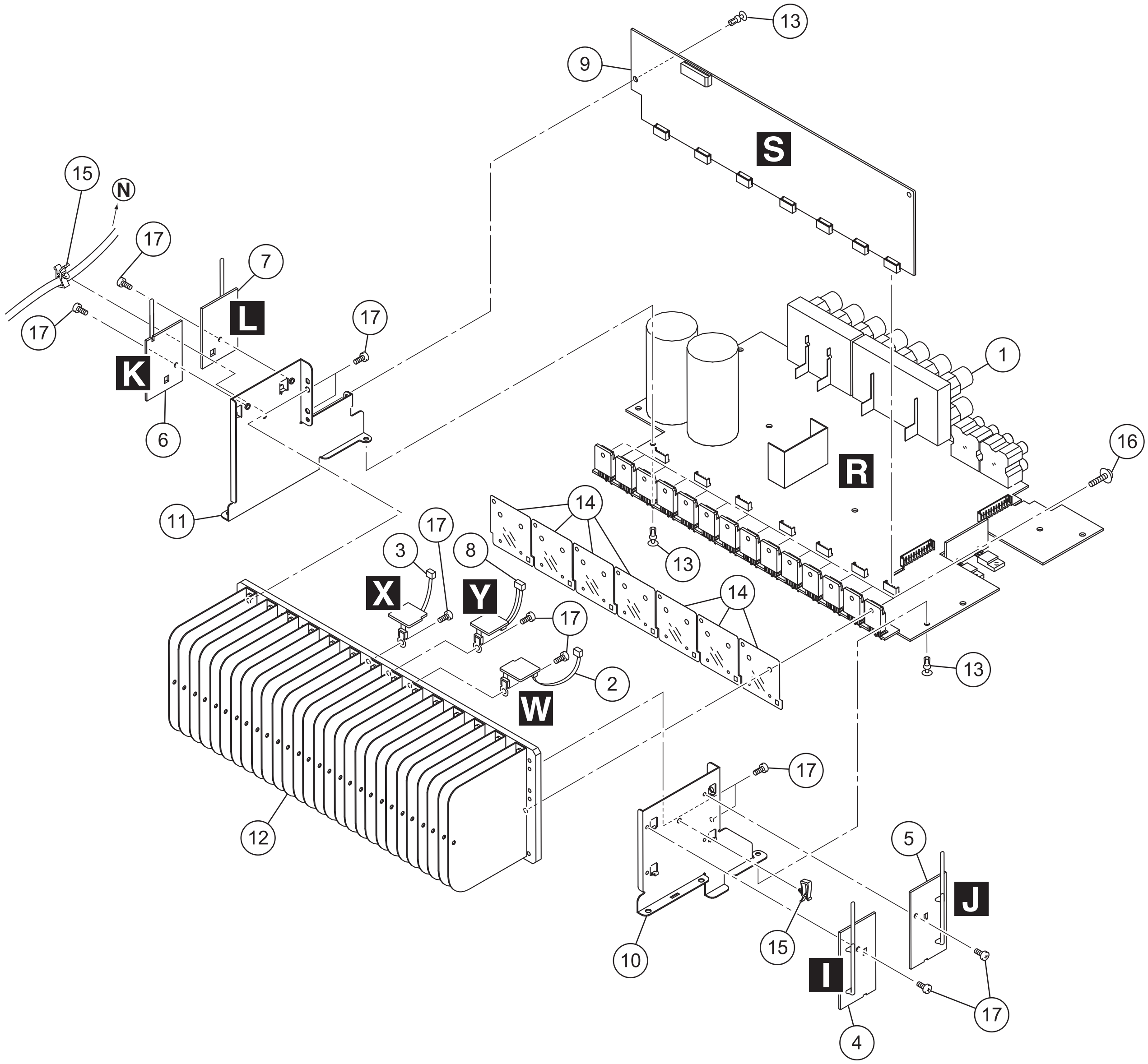
Mark	No.	Description	Part No.
	26	Primary Angle 56	ANG7526
NSP	27	Transistor Holder	ANG7543
	28	DSP Shield V5SEL	ANG7614
	29	HDMI Shield V5S	ANG7616
	30	PCB Stay V5S	ANG7617
NSP	31	Trans Frame V5S	ANG7629
	32	• • • • •	• • • • •
	33	Main Barrier V5S	AEC7602
	34	PS Barrier	AEC7611
	35	• • • • •	• • • • •
	36	Radiation Sheet	PEB1306
	37	Push Rivet	AEC7370
	38	Nylon Rivet	AEC7406
	39	Wire Saddle	DEC1450
	40	Card Spacer	DNK2769
	41	Locking Card Spacer	PNW2917
	42	Lisence Label V5S	ARW7372
	43	Screw 4X12	ABA7109
	44	Screw	BBZ30P080FCC
NSP	45	Binder (BK-1)	ZCA-BK1

(2) CONTRAST TABLE

VSX-03TXH/KUXJ/CA, VSX-9130TXH-K/KUXJ, VSX-01TXH/KUXJ/CA and VSX-1018AH-K/KUXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-03TXH/ KUXJ/CA	VSX-9130TXH-K/ KUXJ	VSX-01TXH/ KUXJ/CA	VSX-1018AH-K/ KUXJ
	4	INTERFACE Assy	AWX8990	AWX8990	AWX8990	AWX8993
NSP	8	MAIN Assy	AWK8052	AWK8069	AWK8056	AWK8057
	9	HDMI & DVC Assy	AWX9170	AWX9170	AWX9233	AWX9233
	10	DSP & USB Assy	AWX9175	AWX9175	AWX9239	AWX9239

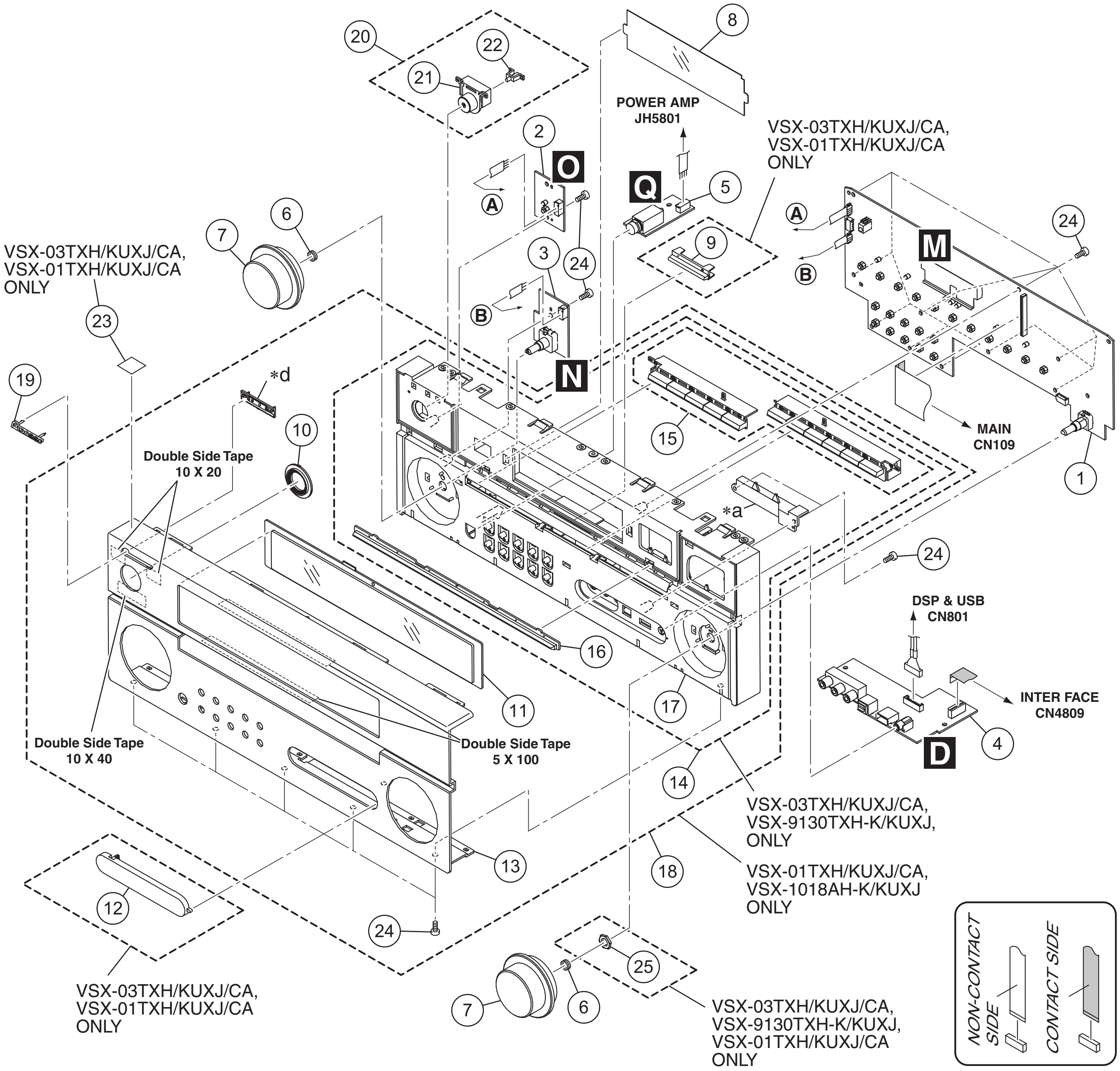
9.4 POWER AMP SECTION

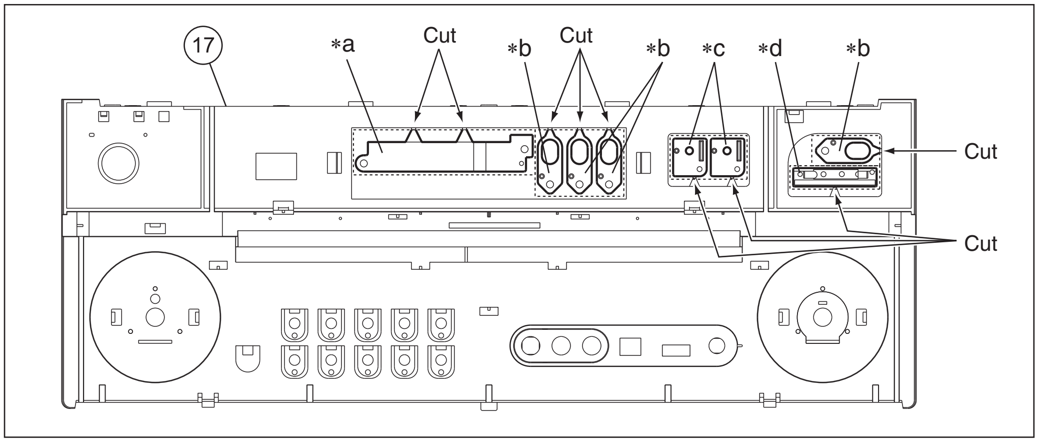

13
9
S
15
N
17
7
L
17
17
K
1
6
16
R
11
14
17
3
8
13
X
Y
14
17
2
W
13
12
17
5
J
10
15
I
17
4

POWER AMP SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	POWER AMP Assy	AWX8983
	2	POSI1 Assy	AWX9132
	3	POSI2 Assy	AWX9133
	4	BIND_L_FRONT Assy	AWX9217
	5	BIND_L_BACK Assy	AWX9218
	6	BIND_R_FRONT Assy	AWX9219
	7	BIND_R_BACK Assy	AWX9220
	8	POSI3 Assy	AWX9223
	9	PRE-STAGE AMP Assy	AWX8989
	10	H.S.Angle V5S L	ANG7611
	11	H.S.Angle V5S R	ANG7612
NSP	12	Heat Sink V5S	ANH7199
	13	Nylon Rivet	AEC7406
	14	Mica Sheet V5SEL	AEE7068
	15	Side Clamp	DEC2007
	16	SEMS Screw 3X19	ABA7085
	17	Screw	BBZ30P080FCC

9.5 FRONT PANEL SECTION


20
22
21
8
POWER AMP
JH5801
2
O
VSX-03TXH/KUXJ/CA,
VSX-01TXH/KUXJ/CA
ONLY
Q
5
A
A
24
M
6
7
3
24
9
B
VSX-03TXH/KUXJ/CA,
VSX-01TXH/KUXJ/CA
ONLY
B
B
23
N
19
*d
10
15
MAIN
CN109
1
Double Side Tape
10 X 20
*a
24
DSP & USB
CN801
16
INTER FACE
CN4809
11
17
Double Side Tape
10 X 40
Double Side Tape
5 X 100
4
D
14
VSX-03TXH/KUXJ/CA,
VSX-9130TXH-K/KUXJ,
ONLY
13
18
VSX-01TXH/KUXJ/CA,
VSX-1018AH-K/KUXJ
ONLY
12
24
25
VSX-03TXH/KUXJ/CA,
VSX-01TXH/KUXJ/CA
ONLY
7
6
VSX-03TXH/KUXJ/CA,
VSX-9130TXH-K/KUXJ,
VSX-01TXH/KUXJ/CA
ONLY
NON-CONTACT SIDE
CONTACT SIDE


17
*a
Cut
*b
Cut
*b
*c
*d
*b
Cut
Cut

FRONT PANEL SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	DISPLAY Assy	See Contrast table(2)
	2	POWER SW Assy	AWX9118
	3	MULTI JOG Assy	AWX9119
	4	FRONT IN Assy	AWX9121
	5	HEADPHONE Assy	AWX9122
	6	VOL Ring 60	ABH7249
	7	VOL.Knob 1017B	AAA7049
	8	Filter	See Contrast table(2)
	9	IB Lens	See Contrast table(2)
	10	Power Ring B	AAK8431
	11	Window	See Contrast table(2)
	12	Input Cover 01TX	See Contrast table(2)
	13	Front Panel	See Contrast table(2)
	14	Panel Base Assy	See Contrast table(2)
NSP	15	Func BTN B V5S	AAD7786
	16	Center Lens	See Contrast table(2)
	17	Panel Base	See Contrast table(2)
	18	Panel Assy	See Contrast table(2)
	19	Name Plate	See Contrast table(2)
	20	STDBY BTN 915K Assy	XAD3216
NSP	21	Standby BTN 915K	XAD3200
NSP	22	Standby Lens V2	XAK3477
NSP	23	Energy Star Label	See Contrast table(2)
	24	Screw	PPZ30P080FNI

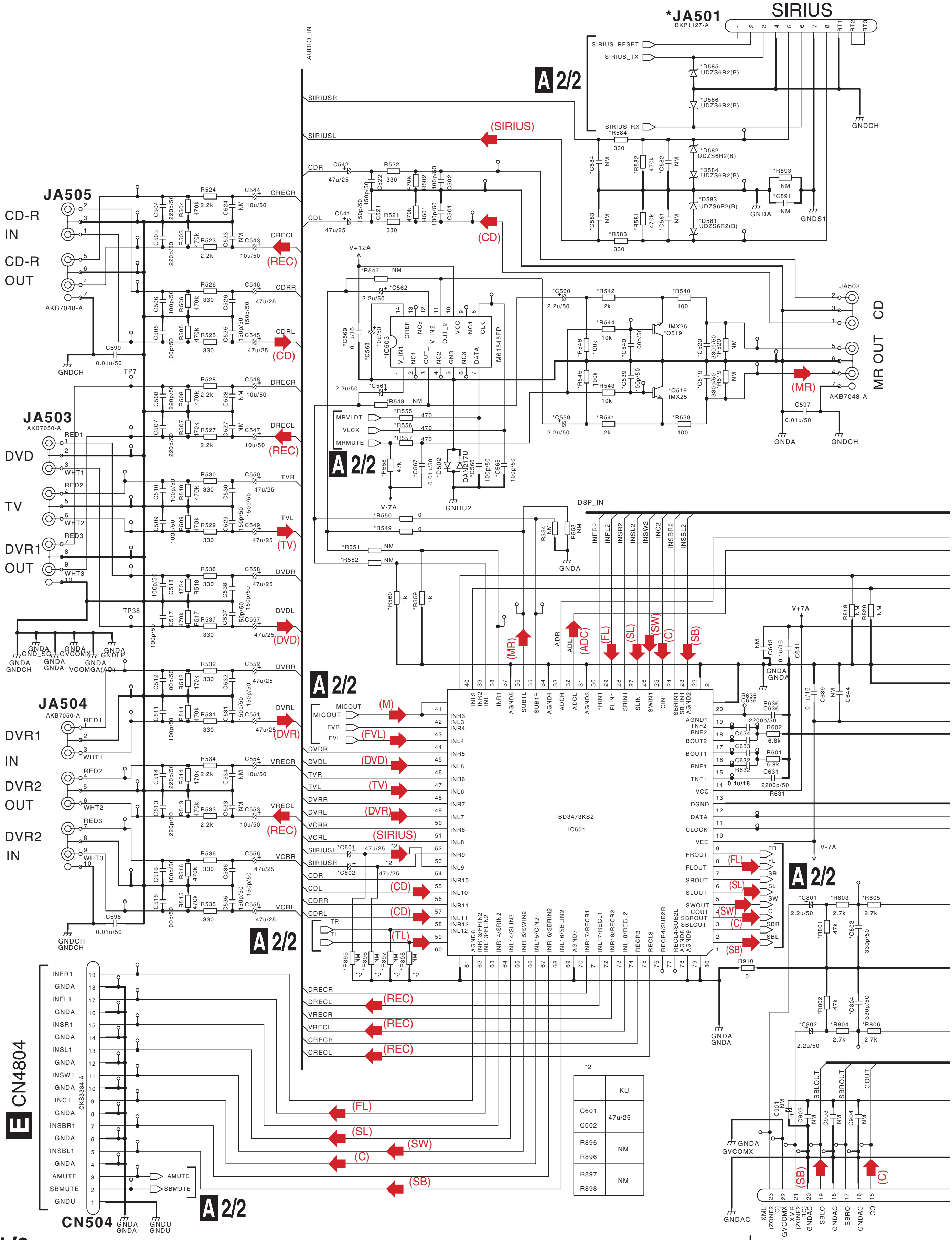
(2) CONTRAST TABLE

VSX-03TXH/KUXJ/CA, VSX-9130TXH-K/KUXJ, VSX-01TXH/KUXJ/CA and VSX-1018AH-K/KUXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-03TXH/ KUXJ/CA	VSX-9130TXH-K/ KUXJ	VSX-01TXH/ KUXJ/CA	VSX-1018AH-K/ KUXJ
	1	DISPLAY Assy	AWX9117	AWX9216	AWX9117	AWX9216
	8	Filter	AAK8412	AAK8413	AAK8412	AAK8413
	9	IB Lens	AAK8430	Not used	AAK8430	Not used
	11	Window	AAK8434	AAK8433	AAK8434	AAK8433
	12	Input Cover 01TX	AAK8436	Not used	AAK8436	Not used
	13	Front Panel	ANB7475	ANB7476	AMB7980	AMB7981
	14	Panel Base Assy	AXG7366	AXG7367	Not used	Not used
	16	Center Lens	AAK8428	AAK8429	AAK8428	AAK8429
	17	Panel Base	AMB7986	AMB7989	AMB7986	AMB7989
	18	Panel Assy	Not used	Not used	AXG7370	AXG7371
	19	Name Plate	PAN1376	AAN7218	PAN1376	XAM3006
NSP	23	Energy Star Label	AAX8022	Not used	AAX8022	Not used

10. SCHEMATIC DIAGRAM

10.1 AUDIO IN ASSY (1/2)



*JA501
BKP1127-A
SIRIUS
SIRIUS_RESET
SIRIUS_TX
SIRIUS_RX
A 2/2
GNDCH
*D585 UDZS6R2(B)
*D586 UDZS6R2(B)
*D582 UDZS6R2(B)
*D584 UDZS6R2(B)
*D583 UDZS6R2(B)
*D581 UDZS6R2(B)
*R584 330
*R583 330
*R893 NM
*C891 NM
GNDA
GNDS1
AUDIO_IN
SIRIUSR
SIRIUSL
(SIRIUS)
CDR
CDL
(CD)
C542 47u/25
C541 47u/25
R522 330
R521 330
JA505
CD-R IN
CD-R OUT
AKB7048-A
CRECR
CRECL
(REC)
CDRR
CDRL
GNDCH
TP7
C599 0.01u/50
JA503
AKB7050-A
DVD
TV
DVR1 OUT
RED1
WHT1
RED2
WHT2
RED3
WHT3
DRECR
DRECL
TVR
TVL
(TV)
DVDR
DVDL
(DVD)
TP38
GNDA
GND_SG
GVCOMX
GNDLP
GNDCH
VCOMGA(AD)
JA504
AKB7050-A
DVR1 IN
DVR2 OUT
DVR2 IN
DVRR
DVRL
(DVR)
VRECR
VRECL
VCRR
VCRL
C598 0.01u/50
V+12A
*R547 NM
*C562 2.2u/50
*IC503
M61545FP
CREF
NC5
V_IN2
OUT_2
VCC
NC4
CLK
V_IN1
NC1
OUT_1
NC2
GND
NC3
DATA
*C561 2.2u/50
*R548 NM
MRVLDT
VLCK
MRMUTE
*R555 470
*R556 470
*R557 470
*R558 47k
*D502 DAN217U
GNDU2
V-7A
*R550 0
*R549 0
*R551 NM
*R552 NM
*R560 1k
*R559 1k
*C560 2.2u/50
*R542 2k
*R540 100
*R544 10k
IMX25 *Q519
IMX25 *Q519
*R543 10k
*C559 2.2u/50
*R541 2k
*R539 100
JA502
AKB7048-A
CD
MR OUT
(MR)
C597 0.01u/50
DSP_IN
R554 NM
R553 NM
INFR2
INFL2
INSR2
INSL2
INSW2
INC2
INSBR2
INSBL2
ADR
ADL
(ADC)
(FL)
(SL)
(SW)
(C)
(SB)
V+7A
R819 NM
R820 NM
C643 0.1u/16
C641
IC501
BD3473KS2
MICOUT
FVR
FVL
(M)
(FVL)
TR
TL
(TL)
*C601 47u/25
*C602 47u/25
*2
*R895 NM
*R896 NM
*R897 NM
*R898 NM
FROUT
FLOUT
SROUT
SLOUT
SWOUT
COUT
SBROUT
SBLOUT
FR
FL
SR
SL
SW
C
SBR
SBL
V-7A
R910 0
*C801 2.2u/50
*R803 2.7k
*R805 2.7k
*R801 47k
*C803 330p/50
*R802 47k
*C804 330p/50
*C802 2.2u/50
*R804 2.7k
*R806 2.7k
CN4804
E
CKS3384-A
INFR1
INFL1
INSR1
INSL1
INSW1
INC1
INSBR1
INSBL1
AMUTE
SBMUTE
GNDU
CN504
GNDA
GNDU
GNDAC
GVCOMX
XML (ZONE2 LO)
GVCOMX
XMR (ZONE2 RO)
GNDAC
SBLO
GNDAC
SBRO
GNDAC
CO
SBLOUT
SBROUT
COUT

*2

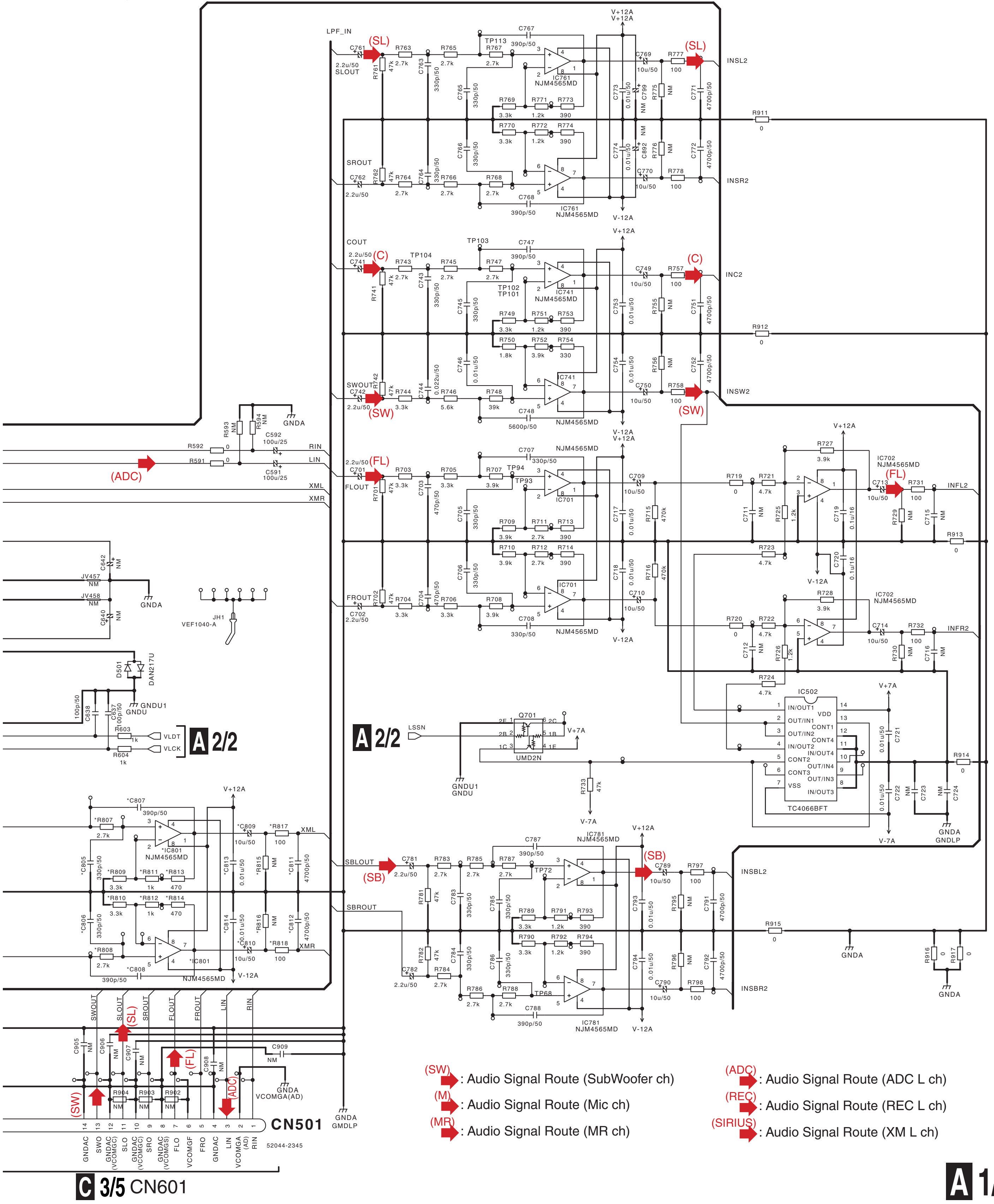
	KU
C601 C602	47u/25
R895 R896	NM
R897 R898	NM

A 1/2

A 1/2 AUDIO IN ASSY (AWK8050)

(DVD) : Audio Signal Route (DVD L ch)
(DVR) : Audio Signal Route (DVR L ch)
(TV) : Audio Signal Route (TV L ch)
(TL) : Audio Signal Route (Tuner L ch)
(CD) : Audio Signal Route (CD L ch)

(FL) : Audio Signal Route (Front L ch)
(FVL) : Audio Signal Route (Video L ch)
(SL) : Audio Signal Route (Surround L ch)
(C) : Audio Signal Route (Center ch)
(SB) : Audio Signal Route (Surround Back L ch)

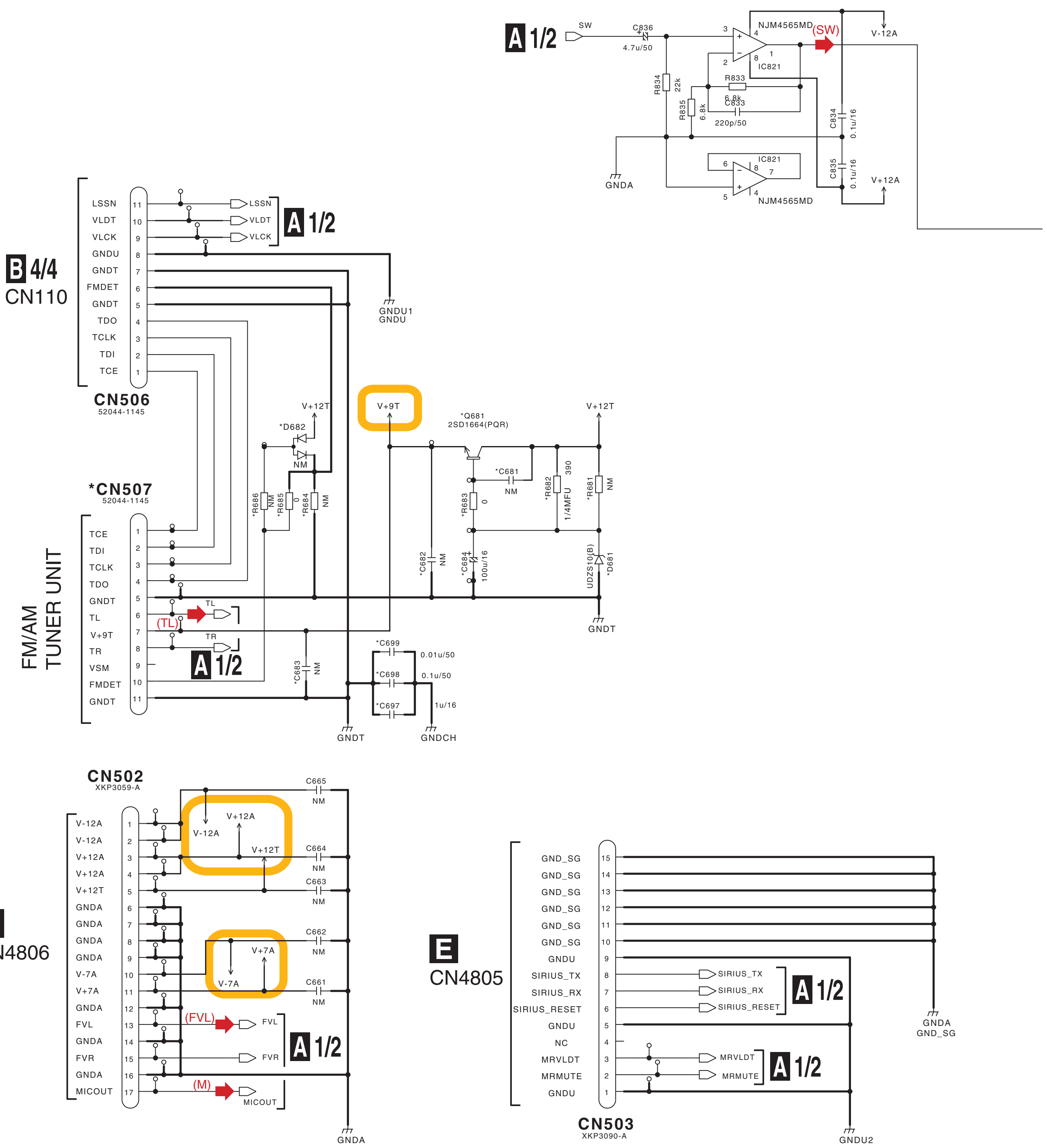


LPF_IN
(SL)
C761 2.2u/50 SLOUT
R761 47k
R763 2.7k
R765 2.7k
C763 330p/50
TP113
R767 2.7k
C767 390p/50
IC761 NJM4565MD
V+12A
C769 10u/50
R777 100
INSL2
C773 0.01u/50
C799 NM
R775 NM
C771 4700p/50
R769 3.3k
R771 1.2k
R773 390
R770 3.3k
R772 1.2k
R774 390
R911 0
C765 330p/50
C766 330p/50
C774 0.01u/50
C802 NM
R776 NM
C772 4700p/50
SROUT
C762 2.2u/50
R762 47k
R764 2.7k
C764 330p/50
R766 2.7k
R768 2.7k
C768 390p/50
C770 10u/50
R778 100
INSR2
V-12A
COUT
TP103
C747 390p/50
C741 2.2u/50
(C)
TP104
R743 2.7k
R745 2.7k
R747 2.7k
R741 47k
C743 330p/50
TP102
TP101
IC741 NJM4565MD
C749 10u/50
R757 100
INC2
C745 330p/50
C753 0.01u/50
R755 NM
C751 4700p/50
R749 3.3k
R751 1.2k
R753 390
R912 0
R750 1.8k
R752 3.9k
R754 330
C746 0.01u/50
C754 0.01u/50
R756 NM
C752 4700p/50
SWOUT
C742 2.2u/50
R742 47k
R744 3.3k
C744 0.022u/50
R746 5.6k
R748 39k
C748 5600p/50
C750 10u/50
R758 100
INSW2
(SW)
R593 NM
R594 NM
GNDA
C592 100u/25
R592 0
RIN
R591 0
LIN
C591 100u/25
(ADC)
XML
XMR
C701 2.2u/50
(FL)
FLOUT
R701 47k
R703 3.3k
C703 470p/50
R705 3.3k
R707 3.9k
TP94
TP93
C707 330p/50
IC701 NJM4565MD
C709 10u/50
C717 0.01u/50
R715 470k
R709 3.9k
R711 2.7k
R713 390
R710 3.9k
R712 2.7k
R714 390
C705 330p/50
C706 330p/50
C718 0.01u/50
R716 470k
FROUT
C702 2.2u/50
R702 47k
R704 3.3k
C704 470p/50
R706 3.3k
R708 3.9k
C708 330p/50
C710 10u/50
R719 0
R721 4.7k
R725 1.2k
R727 3.9k
IC702 NJM4565MD
C713 10u/50
R731 100
INFL2
C711 NM
C719 0.1u/16
R729 NM
C715 NM
R913 0
R723 4.7k
C720 0.1u/16
R720 0
R722 4.7k
R726 1.2k
R728 3.9k
C714 10u/50
R732 100
INFR2
C712 NM
R730 NM
C716 NM
R724 4.7k
IC502
IN/OUT1
OUT/IN1
OUT/IN2
IN/OUT2
CONT2
CONT3
VSS
VDD
CONT1
CONT4
IN/OUT4
OUT/IN4
OUT/IN3
IN/OUT3
TC4066BFT
V+7A
C721 0.01u/50
R914 0
C722 0.01u/50
C723 NM
C724 NM
GNDA
GNDLP
V-7A
C642 NM
JV457 NM
JV458 NM
C640 NM
GNDA
JH1 VEF1040-A
D501 DAN217U
C638 100p/50
C637 100p/50
GNDU1 GNDU
R603 1k
VLDT
R604 1k
VLCK
A 2/2
A 2/2
LSSN
Q701 UMD2N
2E 2C 2B 1B 1C 1E
GNDU1 GNDU
R733 47k
*C807 390p/50
*R807 2.7k
*IC801 NJM4565MD
*C809 10u/50
*R817 100
XML
*C805 330p/50
*R809 3.3k
*R811 1k
*R813 470
*C813 0.01u/50
*R815 NM
*C811 4700p/50
*R810 3.3k
*R812 1k
*R814 470
*C806 330p/50
*C814 0.01u/50
*R816 NM
*C812 4700p/50
*R808 2.7k
*C808 390p/50
*C810 10u/50
*R818 100
XMR
SBLOUT
(SB)
C781 2.2u/50
R781 47k
R783 2.7k
C783 330p/50
R785 2.7k
R787 2.7k
C787 390p/50
TP72
IC781 NJM4565MD
C789 10u/50
R797 100
INSBL2
C785 330p/50
C793 0.01u/50
R795 NM
C791 4700p/50
R789 3.3k
R791 1.2k
R793 390
R790 3.3k
R792 1.2k
R794 390
R915 0
C786 330p/50
C794 0.01u/50
R796 NM
C792 4700p/50
SBROUT
C782 2.2u/50
R782 47k
R784 2.7k
C784 330p/50
R786 2.7k
R788 2.7k
TP68
C788 390p/50
C790 10u/50
R798 100
INSBR2
R916 0
R917 0
GNDA
SWOUT SLOUT SROUT FLOUT FROUT LIN RIN
(SL)
(FL)
(ADC)
(SW)
C905 NM
C906 NM
C907 NM
C908 NM
C909 NM
R904 NM
R903 NM
R902 NM
GNDA VCOMGA(AD)
GNDA GMDLP
CN501
14 13 12 11 10 9 8 7 6 5 4 3 2 1
GNDAC SWO GNDAC (VCOMGC) SLO GNDAC (VCOMGC) SRO GNDAC (VCOMGS) FLO VCOMGF FRO GNDAC LIN VCOMGA (AD) RIN
52044-2345
C 3/5 CN601

(SW) : Audio Signal Route (SubWoofer ch)
(M) : Audio Signal Route (Mic ch)
(MR) : Audio Signal Route (MR ch)

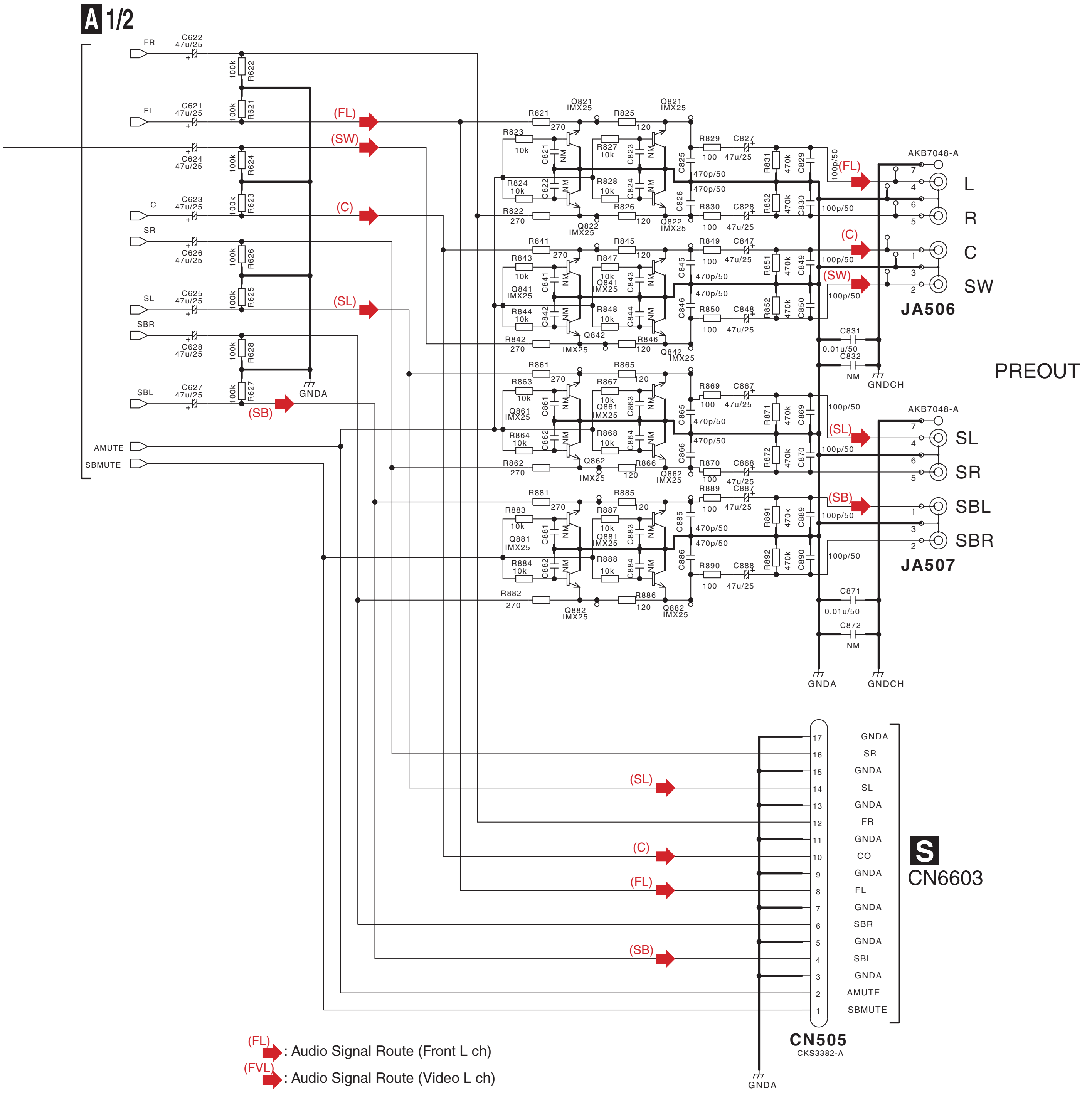
(ADC) : Audio Signal Route (ADC L ch)
(REC) : Audio Signal Route (REC L ch)
(SIRIUS) : Audio Signal Route (XM L ch)

10.2 AUDIO IN ASSY (2/2)


A 1/2
SW
C836
4.7u/50
R834
22k
R835
6.8k
R833
6.8k
C833
220p/50
NJM4565MD
IC821
(SW)
V-12A
C834
0.1u/16
C835
0.1u/16
V+12A
GNDA
B 4/4
CN110
LSSN
VLDT
VLCK
GNDU
GNDT
FMDET
GNDT
TDO
TCLK
TDI
TCE
CN506
52044-1145
GNDU1
GNDU
V+12T
*D682
NM
*R686
NM
*R685
0
*R684
NM
V+9T
*Q681
2SD1664(PQR)
*C681
NM
*R683
0
*R682
390
1/4MFU
*R681
NM
*C682
NM
*C684
100u/16
UDZS10(B)
*D681
GNDT
*CN507
52044-1145
FM/AM
TUNER UNIT
TCE
TDI
TCLK
TDO
GNDT
TL
V+9T
TR
VSM
FMDET
GNDT
TL
(TL)
TR
A 1/2
*C683
NM
*C699
0.01u/50
*C698
0.1u/50
*C697
1u/16
GNDT
GNDCH
CN502
XKP3059-A
V-12A
V-12A
V+12A
V+12A
V+12T
GNDA
GNDA
GNDA
GNDA
V-7A
V+7A
GNDA
FVL
GNDA
FVR
GNDA
MICOUT
E
CN4806
V+12A
V-12A
V+12T
V+7A
V-7A
C665
NM
C664
NM
C663
NM
C662
NM
C661
NM
(FVL)
FVL
FVR
(M)
MICOUT
A 1/2
GNDA
E
CN4805
GND_SG
GND_SG
GND_SG
GND_SG
GND_SG
GND_SG
GNDU
SIRIUS_TX
SIRIUS_RX
SIRIUS_RESET
GNDU
NC
MRVLDT
MRMUTE
GNDU
SIRIUS_TX
SIRIUS_RX
SIRIUS_RESET
A 1/2
MRVLDT
MRMUTE
A 1/2
GNDA
GND_SG
CN503
XKP3090-A
GNDU2

A 2/2

A 2/2 AUDIO IN ASSY (AWK8050)

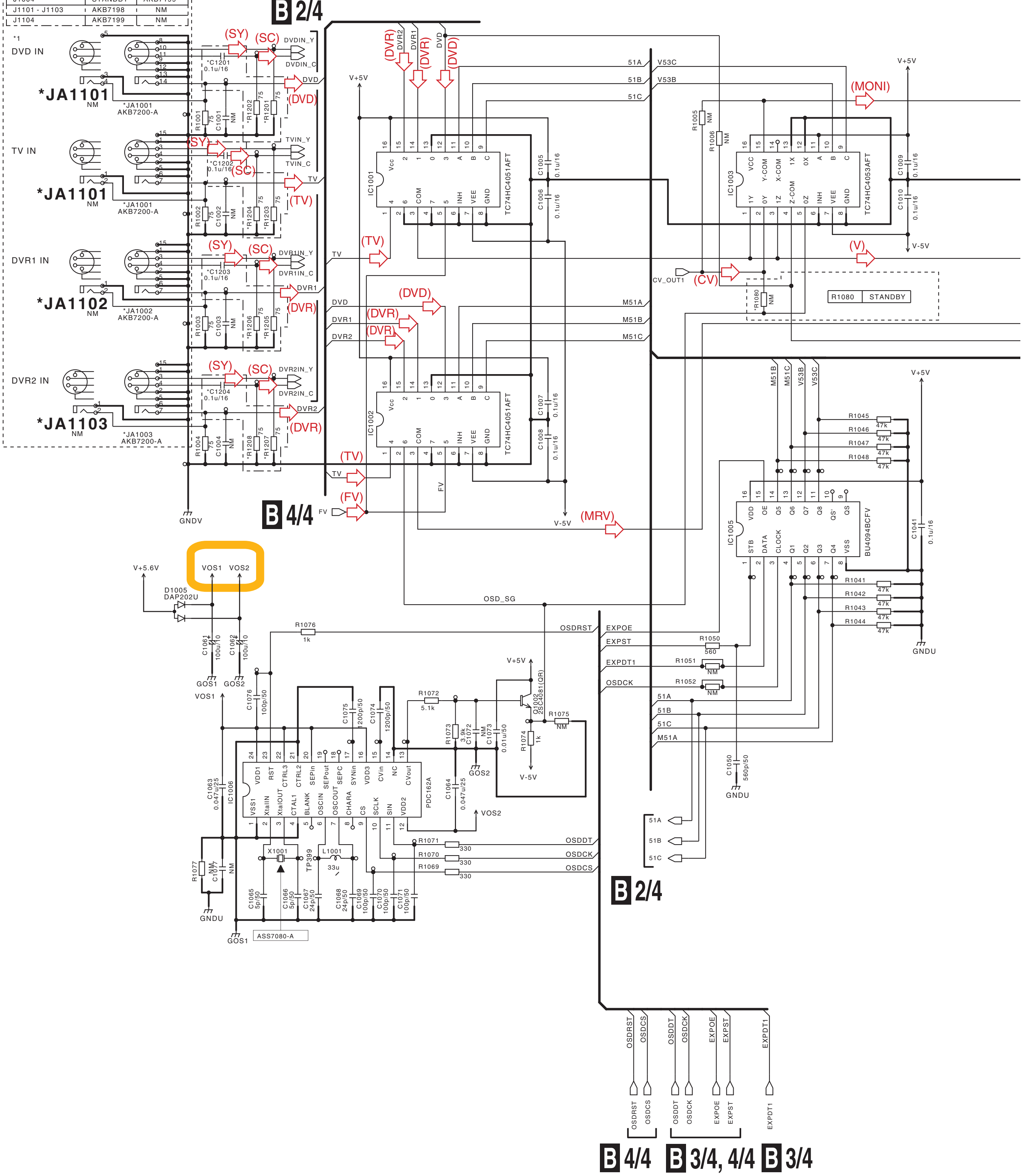

A 1/2
FR
FL
C
SR
SL
SBR
SBL
AMUTE
SBMUTE
C621 47u/25
C622 47u/25
C623 47u/25
C624 47u/25
C625 47u/25
C626 47u/25
C627 47u/25
C628 47u/25
R621 100k
R622 100k
R623 100k
R624 100k
R625 100k
R626 100k
R627 100k
R628 100k
GNDA
(FL)
(SW)
(C)
(SL)
(SB)
Q821 IMX25
Q822 IMX25
Q841 IMX25
Q842 IMX25
Q861 IMX25
Q862 IMX25
Q881 IMX25
Q882 IMX25
R821 270
R822 270
R823 10k
R824 10k
R825 120
R826 120
R827 10k
R828 10k
R829 100
R830 100
R831 470k
R832 470k
C821 NM
C822 NM
C823 NM
C824 NM
C825 470p/50
C826 470p/50
C827 47u/25
C828 47u/25
C829 100p/50
C830 100p/50
R841 270
R842 270
R843 10k
R844 10k
R845 120
R846 120
R847 10k
R848 10k
R849 100
R850 100
R851 470k
R852 470k
C841 NM
C842 NM
C843 NM
C844 NM
C845 470p/50
C846 470p/50
C847 47u/25
C848 47u/25
C849 100p/50
C850 100p/50
C831 0.01u/50
C832 NM
R861 270
R862 270
R863 10k
R864 10k
R865 120
R866 120
R867 10k
R868 10k
R869 100
R870 100
R871 470k
R872 470k
C861 NM
C862 NM
C863 NM
C864 NM
C865 470p/50
C866 470p/50
C867 47u/25
C868 47u/25
C869 100p/50
C870 100p/50
R881 270
R882 270
R883 10k
R884 10k
R885 120
R886 120
R887 10k
R888 10k
R889 100
R890 100
R891 470k
R892 470k
C881 NM
C882 NM
C883 NM
C884 NM
C885 470p/50
C886 470p/50
C887 47u/25
C888 47u/25
C889 100p/50
C890 100p/50
C871 0.01u/50
C872 NM
GNDA
GNDCH
AKB7048-A
L
R
C
SW
JA506
PREOUT
AKB7048-A
SL
SR
SBL
SBR
JA507
S CN6603
CN505
CKS3382-A
17 GNDA
16 SR
15 GNDA
14 SL
13 GNDA
12 FR
11 GNDA
10 CO
9 GNDA
8 FL
7 GNDA
6 SBR
5 GNDA
4 SBL
3 GNDA
2 AMUTE
1 SBMUTE

(FL) : Audio Signal Route (Front L ch)
(FVL) : Audio Signal Route (Video L ch)
(SL) : Audio Signal Route (Surround L ch)
(C) : Audio Signal Route (Center ch)
(SB) : Audio Signal Route (Surround Back L ch)
(SW) : Audio Signal Route (SubWoofer ch)
(TL) : Audio Signal Route (Tuner L ch)

A 2/2

10.3 MAIN ASSY (1/4)

*1	AWX8057	OTHERS
C1201 - C1204	STANDBY	0.1μ/16
R1201 - R1208	STANDBY	75Ω
J1001 - J1003	STANDBY	AKB7200
J1004	STANDBY	AKB7199
J1101 - J1103	AKB7198	NM
J1104	AKB7199	NM



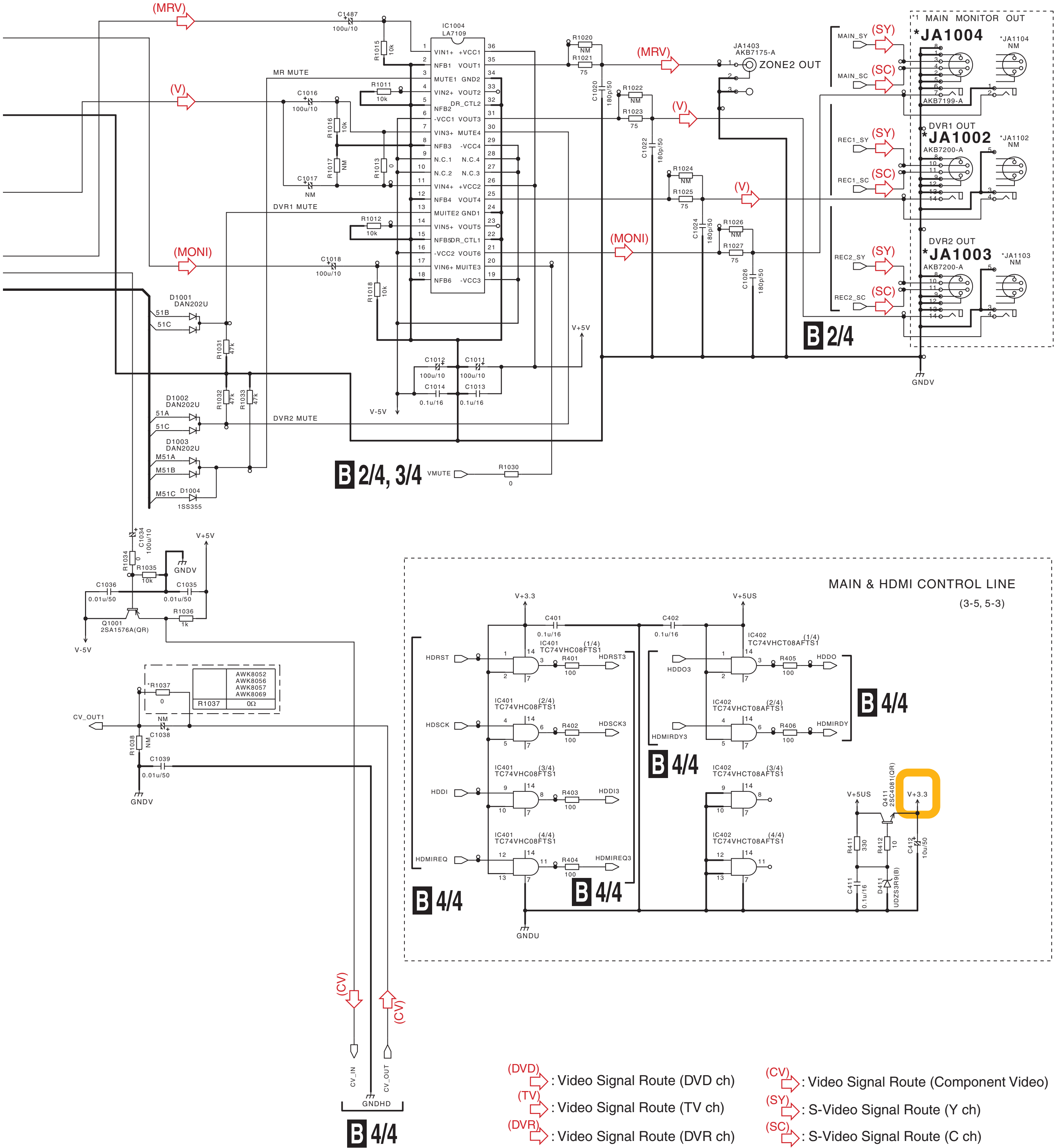
B 2/4
*1
DVD IN
*JA1101
NM
*JA1001
AKB7200-A
TV IN
*JA1101
DVR1 IN
*JA1102
*JA1002
AKB7200-A
DVR2 IN
*JA1103
*JA1003
AKB7200-A
GNDV
(SY)
(SC)
(DVD)
(TV)
(DVR)
(FV)
(MONI)
(V)
(CV)
(MRV)
(DVD)
DVDIN_Y
DVDIN_C
TVIN_Y
TVIN_C
DVR1IN_Y
DVR1IN_C
DVR2IN_Y
DVR2IN_C
DVD
TV
DVR1
DVR2
*C1201
0.1u/16
*C1202
*C1203
*C1204
R1001
C1001
R1002
C1002
R1003
C1003
R1004
C1004
*R1201
*R1202
*R1203
*R1204
*R1205
*R1206
*R1207
*R1208
75
NM
V+5V
V-5V
IC1001
TC74HC4051AFT
IC1002
TC74HC4051AFT
Vcc
COM
INH
VEE
GND
C1005
C1006
C1007
C1008
0.1u/16
51A
51B
51C
V53C
V53B
M51A
M51B
M51C
R1005
R1006
IC1003
TC74HC4053AFT
VCC
Y-COM
X-COM
Z-COM
C1009
C1010
CV_OUT1
*R1080
NM
R1080 STANDBY
B 4/4
FV
V-5V
M51B
M51C
V53B
V53C
R1045
R1046
R1047
R1048
47k
IC1005
BU4094BCFV
VDD
OE
STB
DATA
CLOCK
VSS
C1041
0.1u/16
R1041
R1042
R1043
R1044
GNDU
V+5.6V
VOS1
VOS2
D1005
DAP202U
C1061
C1062
100u/10
GOS1
GOS2
R1076
1k
OSDRST
OSD_SG
EXPOE
EXPST
EXPDT1
OSDCK
R1050
560
R1051
R1052
NM
51A
51B
51C
M51A
C1076
100p/50
C1075
200p/50
C1074
1200p/50
R1072
5.1k
R1073
3.9k
C1072
NM
C1073
0.01u/50
R1074
1k
Q1002
2SC4081(QR)
R1075
NM
V-5V
GOS2
IC1006
PDC162A
VDD1
RST
CTRL3
CTRL2
SEPin
SEPout
SEPC
SYNin
VDD3
CVin
NC
CVout
VSS1
XtalIN
XtalOUT
CTAL1
BLANK
OSCIN
OSCOUT
CHARA
CS
SCLK
SIN
VDD2
C1064
0.047u/25
VOS2
C1063
0.047u/25
R1077
C1077
NM
GNDU
X1001
TP399
L1001
33u
C1065
5p/50
C1066
5p/50
C1067
24p/50
C1068
24p/50
C1069
100p/50
C1070
100p/50
C1071
100p/50
ASS7080-A
GOS1
R1071
R1070
R1069
330
OSDDT
OSDCK
OSDCS
C1050
560p/50
51A
51B
51C
B 2/4
OSDRST
OSDCS
OSDDT
OSDCK
EXPOE
EXPST
EXPDT1
B 4/4
B 3/4, 4/4
B 3/4

A
B
C
D
E
F

B 1/4

B 1/4 MAIN ASSY
(VSX-03TXH : AWK8052)
(VSX-9130TXH-K : AWK8069)
(VSX-01TXH : AWK8056)
(VSX-1018AH-K : AWK8057)

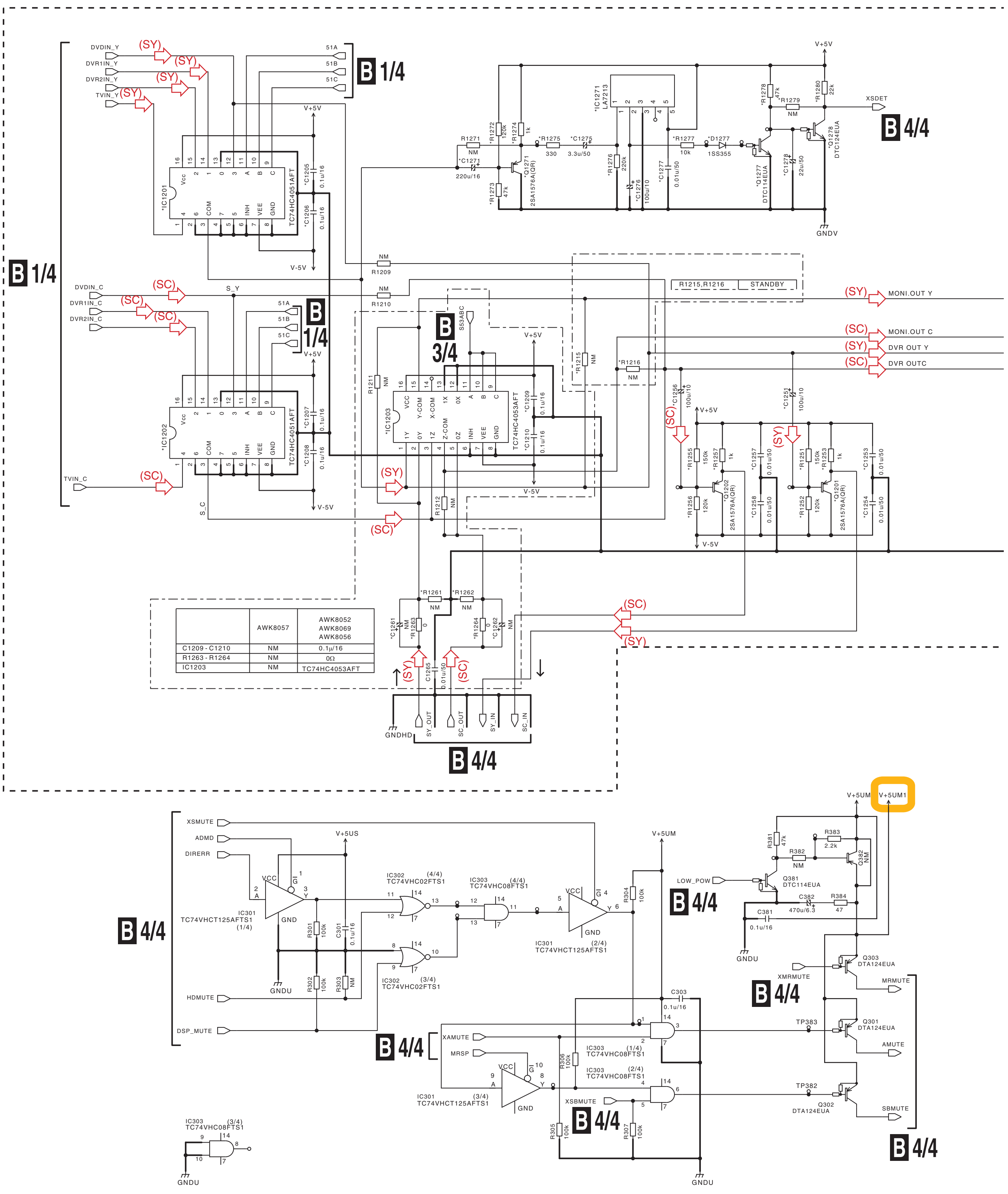
(V) ⇨ : Video Signal Route
(MRV) ⇨ : Video Signal Route (Zone)
(MONI) ⇨ : Video Signal Route (Monitor)



(MRV)
(V)
(MONI)
(CV)
C1487 100u/10
IC1004 LA7109
VIN1+ +VCC1
NFB1 VOUT1
MUTE1 GND2
VIN2+ VOUT2
NFB2 DR_CTL2
-VCC1 VOUT3
VIN3+ MUTE4
NFB3 -VCC4
N.C.1 N.C.4
N.C.2 N.C.3
VIN4+ +VCC2
NFB4 VOUT4
MUITE2 GND1
VIN5+ VOUT5
NFB5 DR_CTL1
-VCC2 VOUT6
VIN6+ MUITE3
NFB6 -VCC3
MR MUTE
DVR1 MUTE
DVR2 MUTE
R1015 10k
R1011 10k
R1016 10k
R1017 NM
R1013 0
R1012 10k
R1018 10k
C1016 100u/10
C1017 NM
C1018 100u/10
R1020 NM
R1021 75
R1022 NM
R1023 75
R1024 NM
R1025 75
R1026 NM
R1027 75
C1020 180p/50
C1022 180p/50
C1024 180p/50
C1026 180p/50
JA1403 AKB7175-A
ZONE2 OUT
MAIN MONITOR OUT
*JA1004
*JA1104 NM
AKB7199-A
MAIN_SY
MAIN_SC
(SY)
(SC)
DVR1 OUT
*JA1002
*JA1102 NM
AKB7200-A
REC1_SY
REC1_SC
DVR2 OUT
*JA1003
*JA1103 NM
REC2_SY
REC2_SC
B 2/4
GNDV
V+5V
V-5V
C1012 100u/10
C1011 100u/10
C1014 0.1u/16
C1013 0.1u/16
D1001 DAN202U
51B
51C
R1031 47k
D1002 DAN202U
51A
R1032 47k
R1033 47k
D1003 DAN202U
M51A
M51B
M51C
D1004 1SS355
B 2/4, 3/4
VMUTE
R1030 0
C1034 100u/10
R1034 0
R1035 10k
C1036 0.01u/50
C1035 0.01u/50
R1036 1k
Q1001 2SA1576A(QR)
*R1037 0
AWK8052 AWK8056 AWK8057 AWK8069
R1037 0Ω
CV_OUT1
R1038 NM
C1038 NM
C1039 0.01u/50
CV_IN
CV_OUT
GNDHD
B 4/4
MAIN & HDMI CONTROL LINE
(3-5, 5-3)
V+3.3
V+5US
C401 0.1u/16
C402 0.1u/16
IC401 TC74VHC08FTS1 (1/4)
IC401 TC74VHC08FTS1 (2/4)
IC401 TC74VHC08FTS1 (3/4)
IC401 TC74VHC08FTS1 (4/4)
IC402 TC74VHCT08AFTS1 (1/4)
IC402 TC74VHCT08AFTS1 (2/4)
IC402 TC74VHCT08AFTS1 (3/4)
IC402 TC74VHCT08AFTS1 (4/4)
HDRST
HDRST3
HDSCK
HDSCK3
HDDI
HDDI3
HDMIREQ
HDMIREQ3
HDDO3
HDDO
HDMIRDY3
HDMIRDY
R401 100
R402 100
R403 100
R404 100
R405 100
R406 100
Q411 2SC4081(QR)
R411 330
R412 10
C412 10u/50
C411 0.1u/16
D411 UDZS3R9(B)
GNDU

(DVD) ⇨ : Video Signal Route (DVD ch)
(TV) ⇨ : Video Signal Route (TV ch)
(DVR) ⇨ : Video Signal Route (DVR ch)
(FV) ⇨ : Video Signal Route (Video)
(CV) ⇨ : Video Signal Route (Component Video)
(SY) ⇨ : S-Video Signal Route (Y ch)
(SC) ⇨ : S-Video Signal Route (C ch)

10.4 MAIN ASSY (2/4)

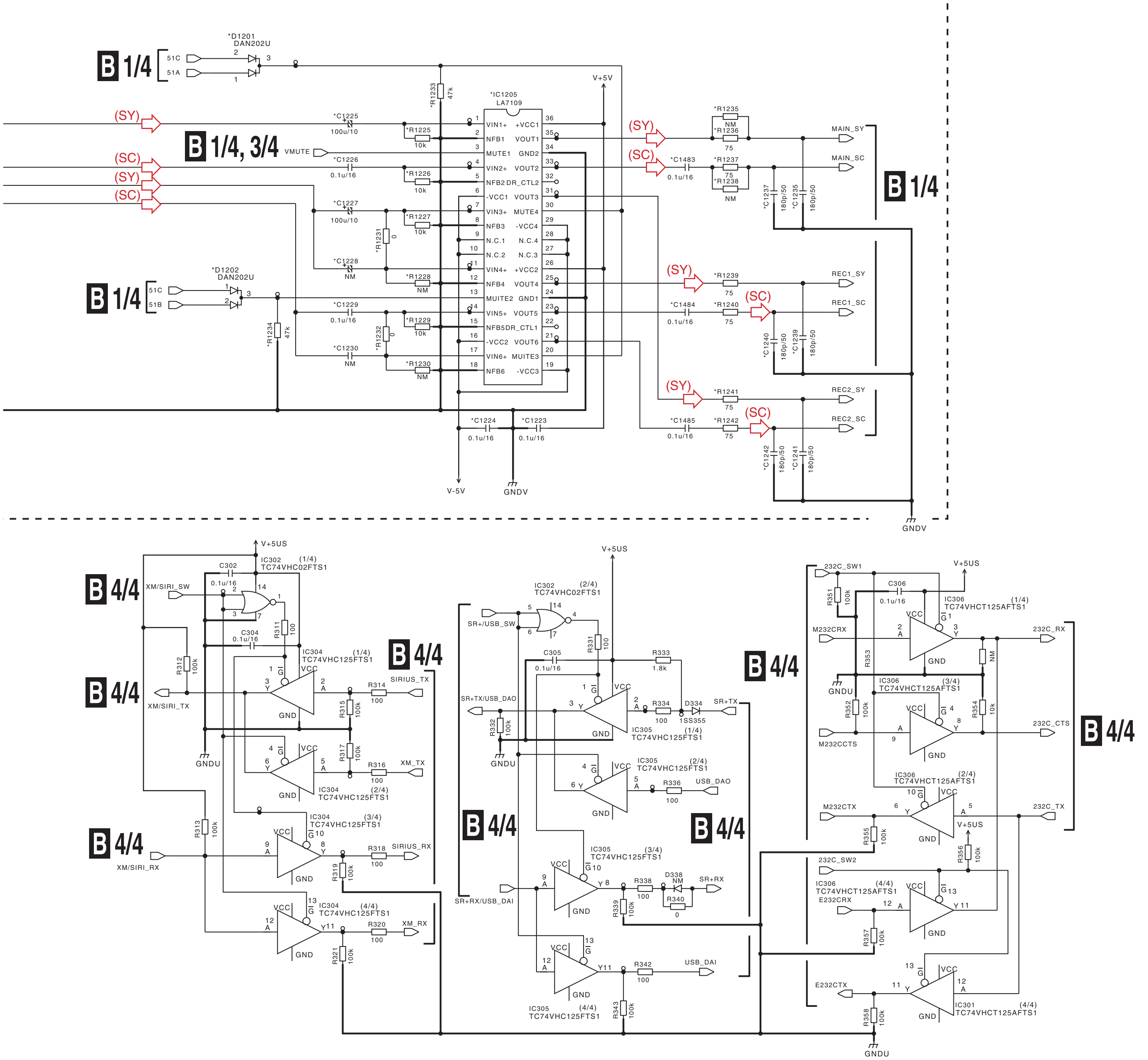


DVDIN_Y
DVR1IN_Y
DVR2IN_Y
TVIN_Y
(SY)
51A
51B
51C
B 1/4
V+5V
V-5V
*IC1201
TC74HC4051AFT
Vcc
COM
INH
VEE
GND
*C1205
0.1u/16
*C1206
0.1u/16
DVDIN_C
DVR1IN_C
DVR2IN_C
TVIN_C
(SC)
S_Y
S_C
*IC1202
TC74HC4051AFT
*C1207
0.1u/16
*C1208
0.1u/16
NM
R1209
R1210
R1211
R1212
B 3/4
S53ABC
*IC1203
TC74HC4053AFT
VCC
Y-COM
X-COM
Z-COM
1X
0X
1Y
0Y
1Z
0Z
A
B
C
*C1209
0.1u/16
*C1210
0.1u/16
R1215,R1216
STANDBY
*R1215
*R1216
MONI.OUT Y
MONI.OUT C
DVR OUT Y
DVR OUTC
*C1256
100u/10
*C1251
100u/10
*R1255
150k
*R1257
1k
*R1256
120k
*Q1202
2SA1576A(QR)
*C1257
0.01u/50
*C1258
0.01u/50
*R1251
150k
*R1253
1k
*R1252
120k
*Q1201
2SA1576A(QR)
*C1253
0.01u/50
*C1254
0.01u/50
V+5V
*R1271
NM
*C1271
220u/16
*R1272
120k
*R1274
1k
*R1273
47k
*Q1271
2SA1576A(QR)
*R1275
330
*C1275
3.3u/50
*IC1271
LA7213
*R1276
220k
*C1276
100u/10
*C1277
0.01u/50
*R1277
10k
*D1277
1SS355
*Q1277
DTC114EUA
*C1278
22u/50
*R1278
47k
*R1279
NM
*R1280
22k
*Q1278
DTC124EUA
XSDET
B 4/4
GNDV
*R1261
NM
*R1262
NM
*C1261
NM
*R1263
0
*R1264
0
*C1262
NM
C1265
0.01u/50
GNDHD
SY_OUT
SC_OUT
SY_IN
SC_IN
B 4/4
V+5UM
V+5UM1
XSMUTE
ADMD
DIRERR
HDMUTE
DSP_MUTE
B 4/4
V+5US
VCC
GND
IC301
TC74VHCT125AFTS1
(1/4)
R301
100k
C301
0.1u/16
R302
100k
R303
NM
GNDU
IC302 (4/4)
TC74VHC02FTS1
IC302 (3/4)
TC74VHC02FTS1
IC303 (4/4)
TC74VHC08FTS1
IC301 (2/4)
TC74VHCT125AFTS1
V+5UM
R304
100k
B 4/4
R381
47k
R382
NM
R383
2.2k
Q382
NM
LOW_POW
Q381
DTC114EUA
C382
470u/6.3
R384
47
C381
0.1u/16
GNDU
Q303
DTA124EUA
XMRMUTE
MRMUTE
B 4/4
C303
0.1u/16
XAMUTE
MRSP
B 4/4
IC303 (1/4)
TC74VHC08FTS1
IC303 (2/4)
TC74VHC08FTS1
IC301 (3/4)
TC74VHCT125AFTS1
R306
100k
XSBMUTE
B 4/4
R305
100k
R307
100k
TP383
Q301
DTA124EUA
AMUTE
TP382
Q302
DTA124EUA
SBMUTE
B 4/4
IC303 (3/4)
TC74VHC08FTS1
GNDU
GNDU

	AWK8057	AWK8052 AWK8069 AWK8056
C1209 - C1210	NM	0.1μ/16
R1263 - R1264	NM	0Ω
IC1203	NM	TC74HC4053AFT

B 2/4 MAIN ASSY (VSX-03TXH : AWK8052) (VSX-9130TXH-K : AWK8069) (VSX-01TXH : AWK8056) (VSX-1018AH-K : AWK8057)

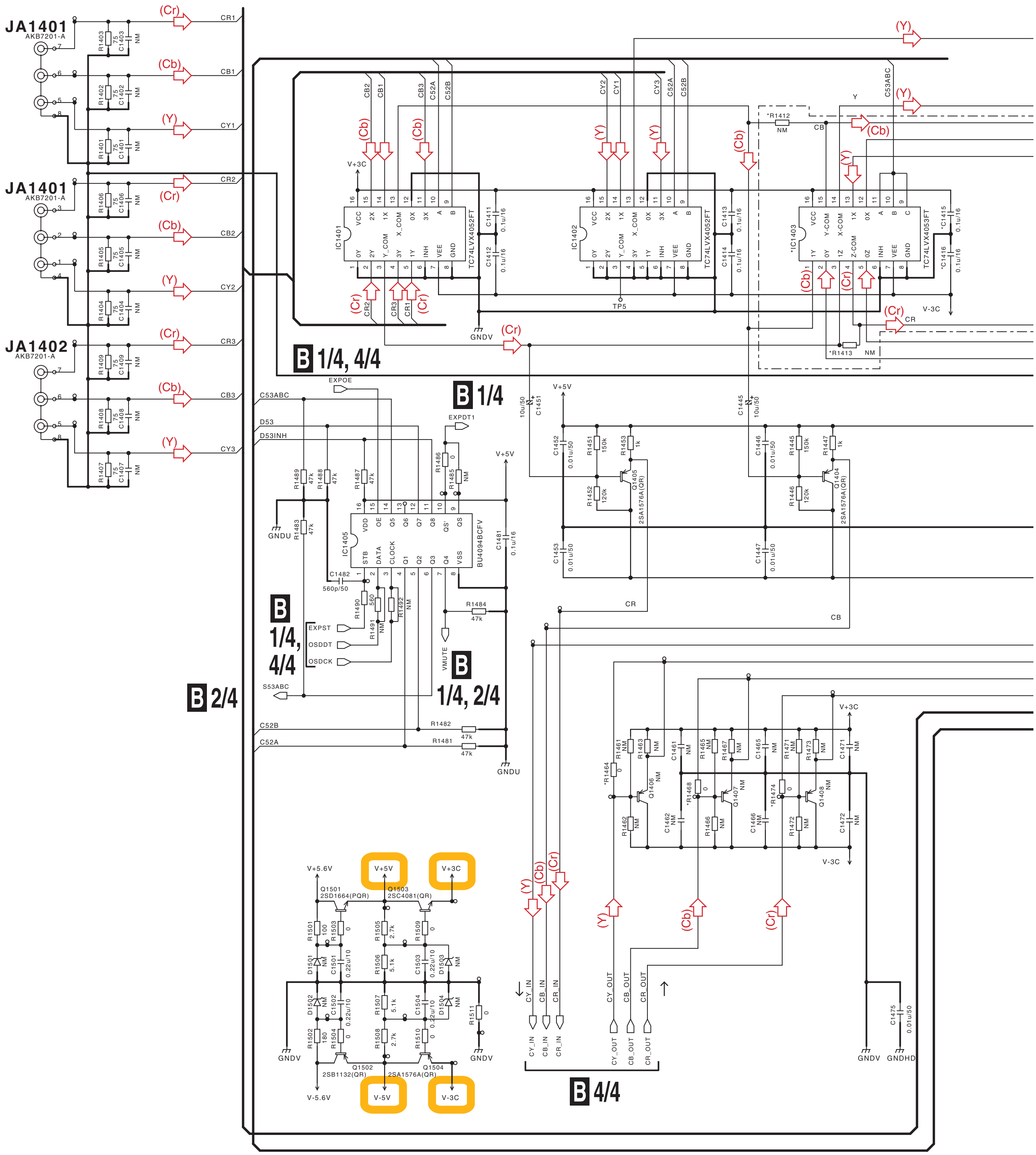
S-VIDEO PART		
	AWK8057	NO NEED
	AWK8052,AWK8069,AWK8056	NEED


B 1/4
51C
51A
*D1201 DAN202U
*R1233 47k
*IC1205 LA7109
V+5V
(SY)
(SC)
*C1225 100u/10
*R1225 10k
B 1/4, 3/4
VMUTE
*C1226 0.1u/16
*R1226 10k
*C1227 100u/10
*R1227 10k
*R1231 0
*C1228 NM
*R1228 NM
*D1202 DAN202U
51C
51B
*R1234 47k
*C1229 0.1u/16
*R1229 10k
*R1232 0
*C1230 NM
*R1230 NM
VIN1+ +VCC1
NFB1 VOUT1
MUTE1 GND2
VIN2+ VOUT2
NFB2 DR_CTL2
-VCC1 VOUT3
VIN3+ MUTE4
NFB3 -VCC4
N.C.1 N.C.4
N.C.2 N.C.3
VIN4+ +VCC2
NFB4 VOUT4
MUITE2 GND1
VIN5+ VOUT5
NFB5DR_CTL1
-VCC2 VOUT6
VIN6+ MUITE3
NFB6 -VCC3
*C1224 0.1u/16
*C1223 0.1u/16
V-5V
GNDV
*R1235 NM
*R1236 75
*C1483 0.1u/16
*R1237 75
*R1238 NM
MAIN_SY
MAIN_SC
*C1237 180p/50
*C1235 180p/50
B 1/4
*R1239 75
REC1_SY
*C1484 0.1u/16
*R1240 75
REC1_SC
*C1240 180p/50
*C1239 180p/50
*R1241 75
REC2_SY
*C1485 0.1u/16
*R1242 75
REC2_SC
*C1242 180p/50
*C1241 180p/50
GNDV
V+5US
C302 0.1u/16
IC302 (1/4) TC74VHC02FTS1
B 4/4
XM/SIRI_SW
R311 100
C304 0.1u/16
R312 100k
IC304 (1/4) TC74VHC125FTS1
XM/SIRI_TX
R314 100
SIRIUS_TX
R315 100k
R317 100k
GNDU
R316 100
XM_TX
IC304 (2/4) TC74VHC125FTS1
IC304 (3/4) TC74VHC125FTS1
R313 100k
XM/SIRI_RX
R318 100
SIRIUS_RX
R319 100k
IC304 (4/4) TC74VHC125FTS1
R320 100
XM_RX
R321 100k
V+5US
IC302 (2/4) TC74VHC02FTS1
SR+/USB_SW
R331 100
C305 0.1u/16
R333 1.8k
SR+TX/USB_DAO
R332 100k
R334 100
D334 1SS355
SR+TX
IC305 (1/4) TC74VHC125FTS1
IC305 (2/4) TC74VHC125FTS1
R336 100
USB_DAO
IC305 (3/4) TC74VHC125FTS1
SR+RX/USB_DAI
R338 100
D338 NM
R340 0
SR+RX
R339 100k
R342 100
USB_DAI
IC305 (4/4) TC74VHC125FTS1
R343 100k
232C_SW1
V+5US
R351 100k
C306 0.1u/16
IC306 (1/4) TC74VHCT125AFTS1
M232CRX
232C_RX
R353 NM
IC306 (3/4) TC74VHCT125AFTS1
R352 100k
R354 10k
M232CCTS
232C_CTS
IC306 (2/4) TC74VHCT125AFTS1
M232CTX
232C_TX
R355 100k
R356 100k
232C_SW2
IC306 (4/4) TC74VHCT125AFTS1
E232CRX
R357 100k
E232CTX
IC301 (4/4) TC74VHCT125AFTS1
R358 100k
GNDU

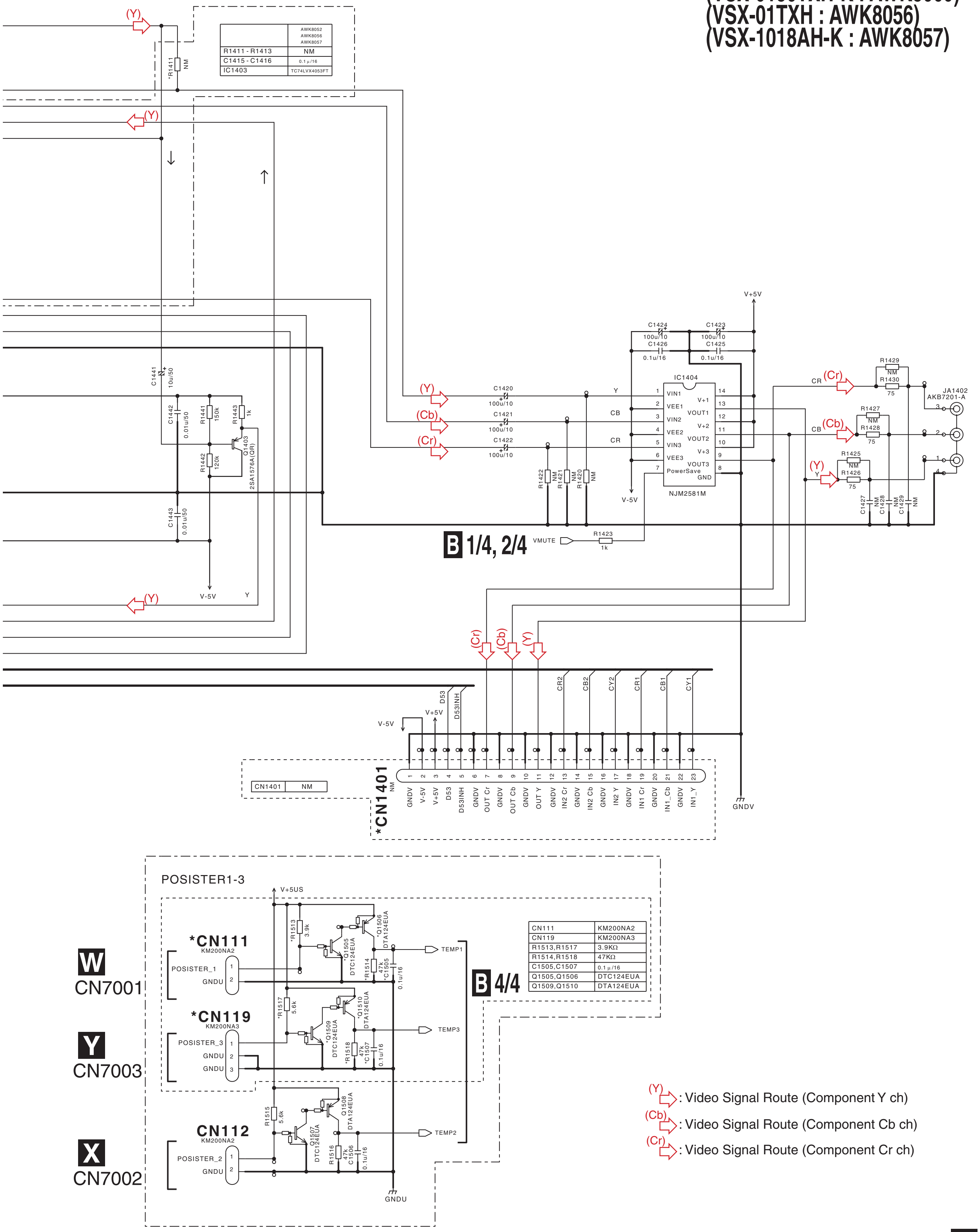
(SY) : S-Video Signal Route (Y ch)

(SC) : S-Video Signal Route (C ch)

10.5 MAIN ASSY (3/4)


JA1401
AKB7201-A
JA1401
AKB7201-A
JA1402
AKB7201-A
(Cr)
(Cb)
(Y)
CR1
CB1
CY1
CR2
CB2
CY2
CR3
CB3
CY3
R1401
R1402
R1403
R1404
R1405
R1406
R1407
R1408
R1409
75
C1401
C1402
C1403
C1404
C1405
C1406
C1407
C1408
C1409
NM
IC1401
TC74LVX4052FT
VCC
2X
1X
X_COM
0X
3X
A
B
0Y
2Y
Y_COM
3Y
1Y
INH
VEE
GND
V+3C
CB2
CB1
CB3
C52A
C52B
CR2
CR3
CR1
C1411
C1412
0.1u/16
GNDV
IC1402
TC74LVX4052FT
CY2
CY1
CY3
C1413
C1414
TP5
*IC1403
TC74LVX4053FT
Y-COM
X-COM
Z-COM
1Z
0Z
C
C53ABC
*R1412
*R1413
*C1415
*C1416
V-3C
CR
CB
Y
B 1/4, 4/4
B 1/4
B 2/4
EXPOE
EXPDT1
C53ABC
D53
D53INH
IC1405
BU4094BCFV
VDD
OE
Q5
Q6
Q7
Q8
QS'
QS
STB
DATA
CLOCK
Q1
Q2
Q3
Q4
VSS
R1483
R1484
R1485
R1486
R1487
R1488
R1489
R1490
R1491
R1492
47k
560
C1481
C1482
560p/50
GNDU
V+5V
EXPST
OSDDT
OSDCK
B 1/4, 4/4
VMUTE
B 1/4, 2/4
S53ABC
C52B
C52A
R1481
R1482
C1451
C1445
10u/50
C1452
C1446
C1453
C1447
0.01u/50
R1451
R1445
150k
R1453
R1447
1k
R1452
R1446
120k
Q1405
Q1404
2SA1576A(QR)
V+3C
R1461
R1463
R1465
R1467
R1471
R1473
*R1464
*R1468
*R1474
R1462
R1466
R1472
C1461
C1462
C1465
C1466
C1471
C1472
Q1406
Q1407
Q1408
V-3C
CY_IN
CB_IN
CR_IN
CY_OUT
CB_OUT
CR_OUT
B 4/4
C1475
0.01u/50
GNDV
GNDHD
V+5.6V
V-5.6V
V+5V
V+3C
V-5V
V-3C
Q1501
2SD1664(PQR)
Q1503
2SC4081(QR)
Q1502
2SB1132(QR)
Q1504
2SA1576A(QR)
R1501
100
R1502
180
R1503
R1504
R1505
2.7k
R1506
5.1k
R1507
R1508
R1509
R1510
R1511
0
C1501
C1502
C1503
C1504
0.22u/10
D1501
D1502
D1503
D1504
GNDV

B 3/4 MAIN ASSY
(VSX-03TXH : AWK8052)
(VSX-9130TXH-K : AWK8069)
(VSX-01TXH : AWK8056)
(VSX-1018AH-K : AWK8057)


(Y)
*R1411 NM
(Y)
C1441 10u/50
C1442 0.01u/50
R1441 150k
R1443 1k
R1442 120k
Q1403 2SA1576A(QR)
C1443 0.01u/50
V-5V
Y
(Y)
V+5V
C1424 100u/10
C1426 0.1u/16
C1423 100u/10
C1425 0.1u/16
IC1404
NJM2581M
VIN1
VEE1
VIN2
VEE2
VIN3
VEE3
PowerSave
V+1
VOUT1
V+2
VOUT2
V+3
VOUT3
GND
(Y)
C1420 100u/10
(Cb)
C1421 100u/10
(Cr)
C1422 100u/10
Y
CB
CR
R1422 NM
R1421 NM
R1420 NM
V-5V
B 1/4, 2/4
VMUTE
R1423 1k
CR (Cr)
R1429 NM
R1430 75
R1427 NM
R1428 75
CB (Cb)
R1425 NM
R1426 75
(Y) Y
C1427 NM
C1428 NM
C1429 NM
JA1402 AKB7201-A
(Cr) (Cb) (Y)
CR2 CB2 CY2 CR1 CB1 CY1
D53 D53INH
V+5V
V-5V
*CN1401 NM
1 GNDV
2 V-5V
3 V+5V
4 D53
5 D53INH
6 GNDV
7 OUT Cr
8 GNDV
9 OUT Cb
10 GNDV
11 OUT Y
12 GNDV
13 IN2 Cr
14 GNDV
15 IN2 Cb
16 GNDV
17 IN2 Y
18 GNDV
19 IN1 Cr
20 GNDV
21 IN1_Cb
22 GNDV
23 IN1_Y
GNDV
POSISTER1-3
V+5US
W CN7001
*CN111 KM200NA2
POSISTER_1
GNDU
*R1513 3.9k
*Q1505 DTC124EUA
*Q1506 DTA124EUA
*R1514 47k
*C1505 0.1u/16
TEMP1
Y CN7003
*CN119 KM200NA3
POSISTER_3
GNDU
GNDU
*R1517 5.6k
*Q1509 DTC124EUA
*Q1510 DTA124EUA
*R1518 47k
*C1507 0.1u/16
TEMP3
X CN7002
CN112 KM200NA2
POSISTER_2
GNDU
R1515 5.6k
Q1507 DTC124EUA
Q1508 DTA124EUA
R1516 47k
C1506 0.1u/16
TEMP2
GNDU
B 4/4

	AWK8052 AWK8056 AWK8057
R1411 - R1413	NM
C1415 - C1416	0.1μ/16
IC1403	TC74LVX4053FT

CN1401	NM

CN111	KM200NA2
CN119	KM200NA3
R1513,R1517	3.9KΩ
R1514,R1518	47KΩ
C1505,C1507	0.1μ/16
Q1505,Q1506	DTC124EUA
Q1509,Q1510	DTA124EUA

(Y) ⇨ : Video Signal Route (Component Y ch)

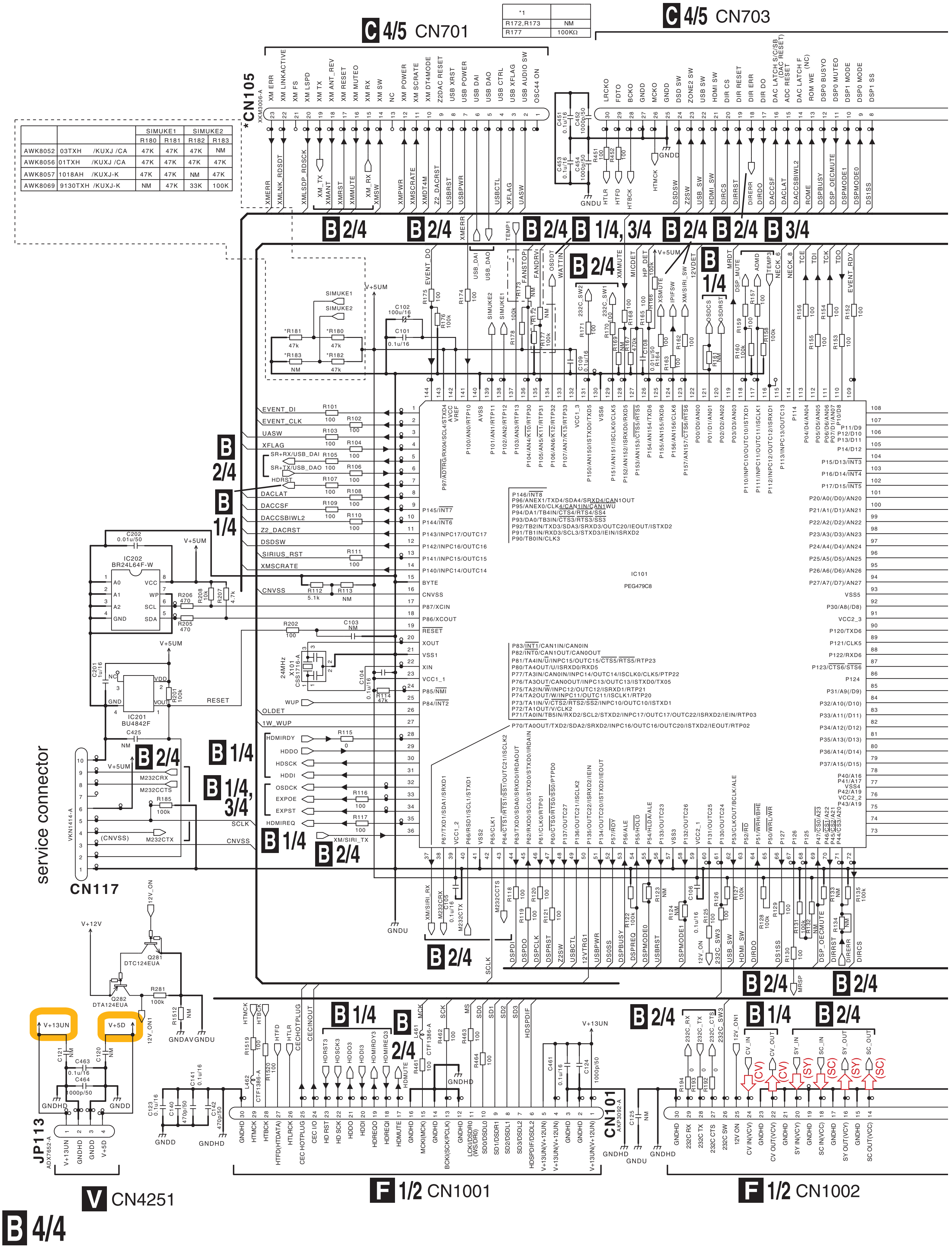
(Cb) ⇨ : Video Signal Route (Component Cb ch)

(Cr) ⇨ : Video Signal Route (Component Cr ch)

10.6 MAIN ASSY (4/4)

*1	
R172,R173	NM
R177	100KΩ

	SIMUKE1		SIMUKE2	
	R180	R181	R182	R183
AWK8052 03TXH /KUXJ /CA	47K	47K	47K	NM
AWK8056 01TXH /KUXJ /CA	47K	47K	47K	47K
AWK8057 1018AH /KUXJ-K	47K	47K	NM	47K
AWK8069 9130TXH /KUXJ-K	NM	47K	33K	100K

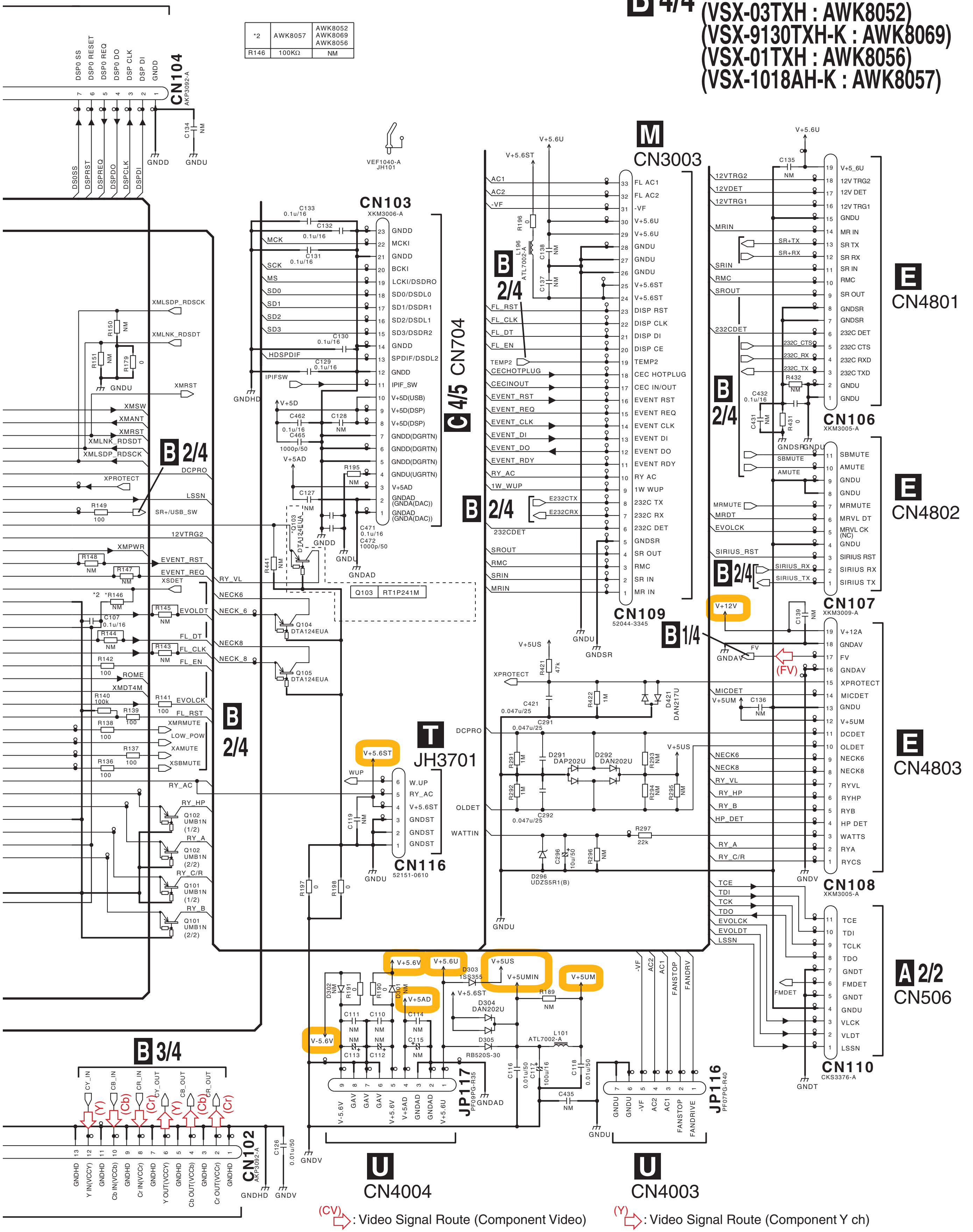


C 4/5 CN701
C 4/5 CN703
*CN105 XKM3006-A
IC101 PEG479C8
IC202 BR24L64F-W
IC201 BU4842F
X101 CSS7316-A 24MHz
Q281 DTC124EUA
Q282 DTA124EUA
service connector
CN117 VKN1414-A
JP113 ADX7652-A
V CN4251
CN1001 CTF1386-A
F 1/2 CN1001
CN101 AKP3092-A
F 1/2 CN1002
B 2/4
B 1/4
B 3/4
B 1/4, 3/4
V+5UM
V+12V
V+13UN
V+5D
GNDU
GNDD
GNDHD
GNDAV
RESET
CNVSS

B 4/4

B 4/4 MAIN ASSY
(VSX-03TXH : AWK8052)
(VSX-9130TXH-K : AWK8069)
(VSX-01TXH : AWK8056)
(VSX-1018AH-K : AWK8057)

*2	AWK8057	AWK8052 AWK8069 AWK8056
R146	100KΩ	NM



CN104
AKP3092-A
DSP0 SS
DSP0 RESET
DSP0 REQ
DSP0 DO
DSP CLK
DSP DI
GNDD
DS0SS
DSPRST
DSPREQ
DSPDO
DSPCLK
DSPDI
C134 NM
GNDD
GNDU
VEF1040-A
JH101
CN103
XKM3006-A
23 GNDD
22 MCKI
21 GNDD
20 BCKI
19 LCKI/DSDR0
18 SD0/DSDL0
17 SD1/DSDR1
16 SD2/DSDL1
15 SD3/DSDR2
14 GNDD
13 SPDIF/DSDL2
12 GNDD
11 IPIF_SW
10 V+5D(USB)
9 V+5D(DSP)
8 V+5D(DSP)
7 GNDD(DGRTN)
6 GNDD(DGRTN)
5 GNDD(DGRTN)
4 GNDU(UGRTN)
3 V+5AD
2 GNDAD (GNDA(DAC))
1 GNDAD (GNDA(DAC))
C 4/5 CN704
Q103 RT1P241M
Q104 DTA124EUA
Q105 DTA124EUA
XMLSDP_RDSCK
XMLNK_RDSDT
XMRST
XMSW
XMANT
XMRST
XMLNK_RDSDT
XMLSDP_RDSCK
B 2/4
DCPRO
XPROTECT
LSSN
SR+/USB_SW
12VTRG2
XMPWR
EVENT_RST
EVENT_REQ
XSDET
RY_VL
NECK6
EVOLDT
NECK_6
FL_DT
FL_CLK
FL_EN
NECK8
NECK_8
ROME
XMDT4M
EVOLCK
FL_RST
XMRMUTE
LOW_POW
XAMUTE
XSBMUTE
RY_AC
RY_HP
Q102 UMB1N (1/2)
RY_A
Q102 UMB1N (2/2)
RY_C/R
Q101 UMB1N (1/2)
RY_B
Q101 UMB1N (2/2)
B 2/4
T JH3701
V+5.6ST
WUP
6 W.UP
5 RY_AC
4 V+5.6ST
3 GNDST
2 GNDST
1 GNDST
CN116
52151-0610
DCPRO
OLDET
WATTIN
M CN3003
33 FL AC1
32 FL AC2
31 -VF
30 V+5.6U
29 V+5.6U
28 GNDU
27 GNDU
26 GNDU
25 V+5.6ST
24 V+5.6ST
23 DISP RST
22 DISP CLK
21 DISP DI
20 DISP CE
19 TEMP2
18 CEC HOTPLUG
17 CEC IN/OUT
16 EVENT RST
15 EVENT REQ
14 EVENT CLK
13 EVENT DI
12 EVENT DO
11 EVENT RDY
10 RY AC
9 1W WUP
8 232C TX
7 232C RX
6 232C DET
5 GNDSR
4 SR OUT
3 RMC
2 SR IN
1 MR IN
CN109
52044-3345
B 1/4
B 2/4
V+5US
XPROTECT
D421 DAN217U
D291 DAP202U
D292 DAN202U
D296 UDZS5R1(B)
CN106
XKM3005-A
19 V+5_6U
18 12V TRG2
17 12V DET
16 12V TRG1
15 GNDU
14 MR IN
13 SR TX
12 SR RX
11 SR IN
10 RMC
9 SR OUT
8 GNDSR
7 GNDSR
6 232C DET
5 232C CTS
4 232C RXD
3 232C TXD
2 GNDU
1 GNDU
E CN4801
CN107
XKM3009-A
11 SBMUTE
10 AMUTE
9 GNDU
8 GNDU
7 MRMUTE
6 MRVL DT
5 MRVL CK (NC)
4 GNDU
3 SIRIUS RST
2 SIRIUS RX
1 SIRIUS TX
E CN4802
V+12V
(FV)
19 V+12A
18 GNDAV
17 FV
16 GNDAV
15 XPROTECT
14 MICDET
13 GNDU
12 V+5UM
11 DCDET
10 OLDET
9 NECK6
8 NECK8
7 RYVL
6 RYHP
5 RYB
4 HP DET
3 WATTS
2 RYA
1 RYCS
CN108
XKM3005-A
E CN4803
11 TCE
10 TDI
9 TCLK
8 TDO
7 GNDT
6 FMDET
5 GNDT
4 GNDU
3 VLCK
2 VLDT
1 LSSN
CN110
CKS3376-A
A 2/2 CN506
V+5.6V
V+5.6U
V+5US
V+5UMIN
V+5UM
V+5AD
V-5.6V
D303 1SS355
D304 DAN202U
D305 RB520S-30
L101 ATL7002-A
JP117
PF09PG-R35
9 V-5.6V
8 GAV
7 GAV
6 V+5.6V
5 V+5AD
4 GNDAD
3 GNDAD
2 V+5.6U
JP116
PF07PG-R40
GNDU
GNDU
-VF
AC2
AC1
FANSTOP
FANDRIVE
U CN4004
U CN4003
B 3/4
CY_IN
CB_IN
CR_IN
CY_OUT
CB_OUT
CR_OUT
(Y)
(Cb)
(Cr)
CN102
AKP3092-A
GNDHD
Y IN(VCCY)
GNDHD
Cb IN(VCCb)
GNDHD
Cr IN(VCCr)
GNDHD
Y OUT(VCCY)
GNDHD
Cb OUT(VCCb)
GNDHD
Cr OUT(VCCr)
GNDHD
GNDHD
GNDV

(CV): Video Signal Route (Component Video)

(SY): S-Video Signal Route (Y ch)

(SC): S-Video Signal Route (C ch)

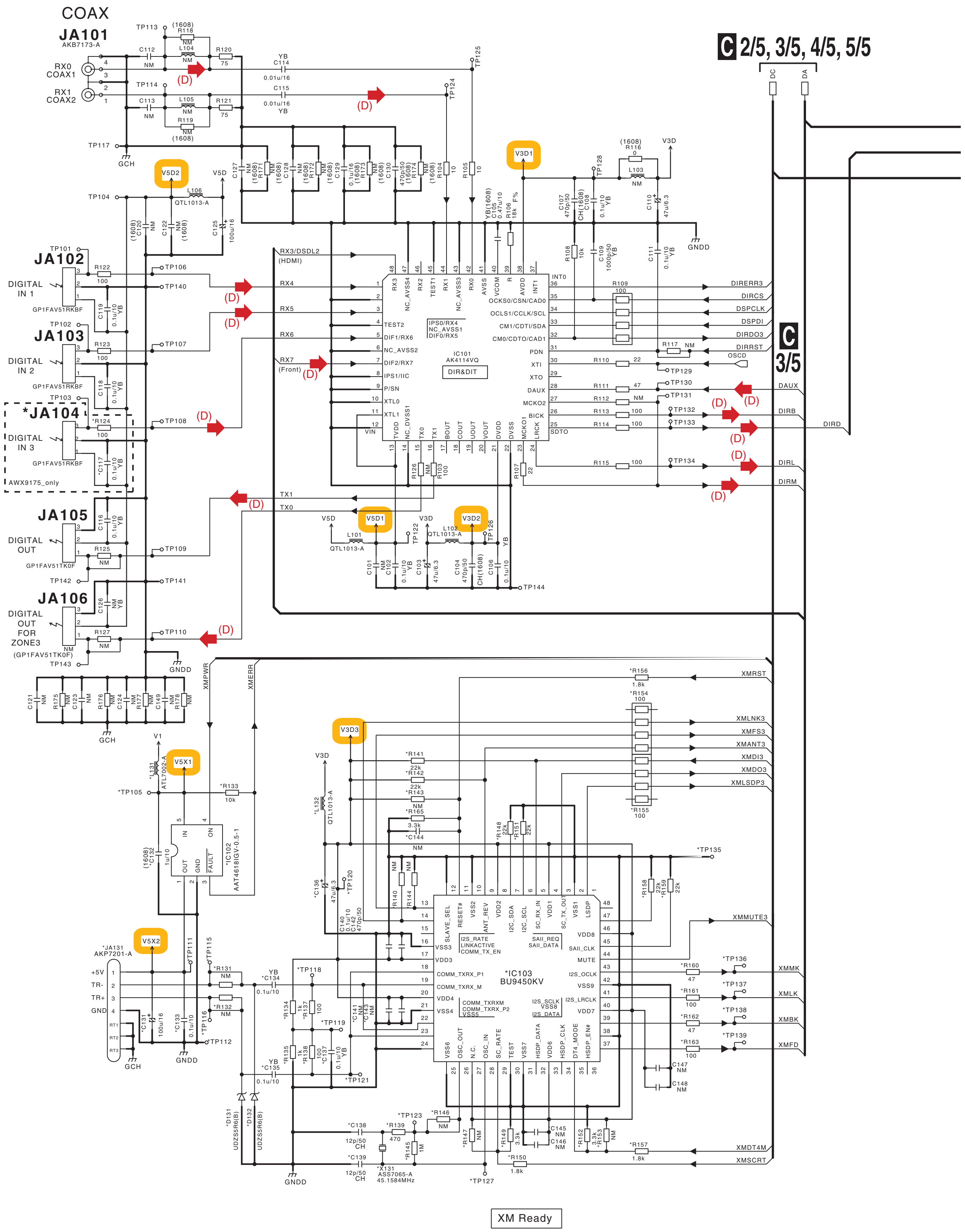
(FV): Video Signal Route (Video)

(Y): Video Signal Route (Component Y ch)

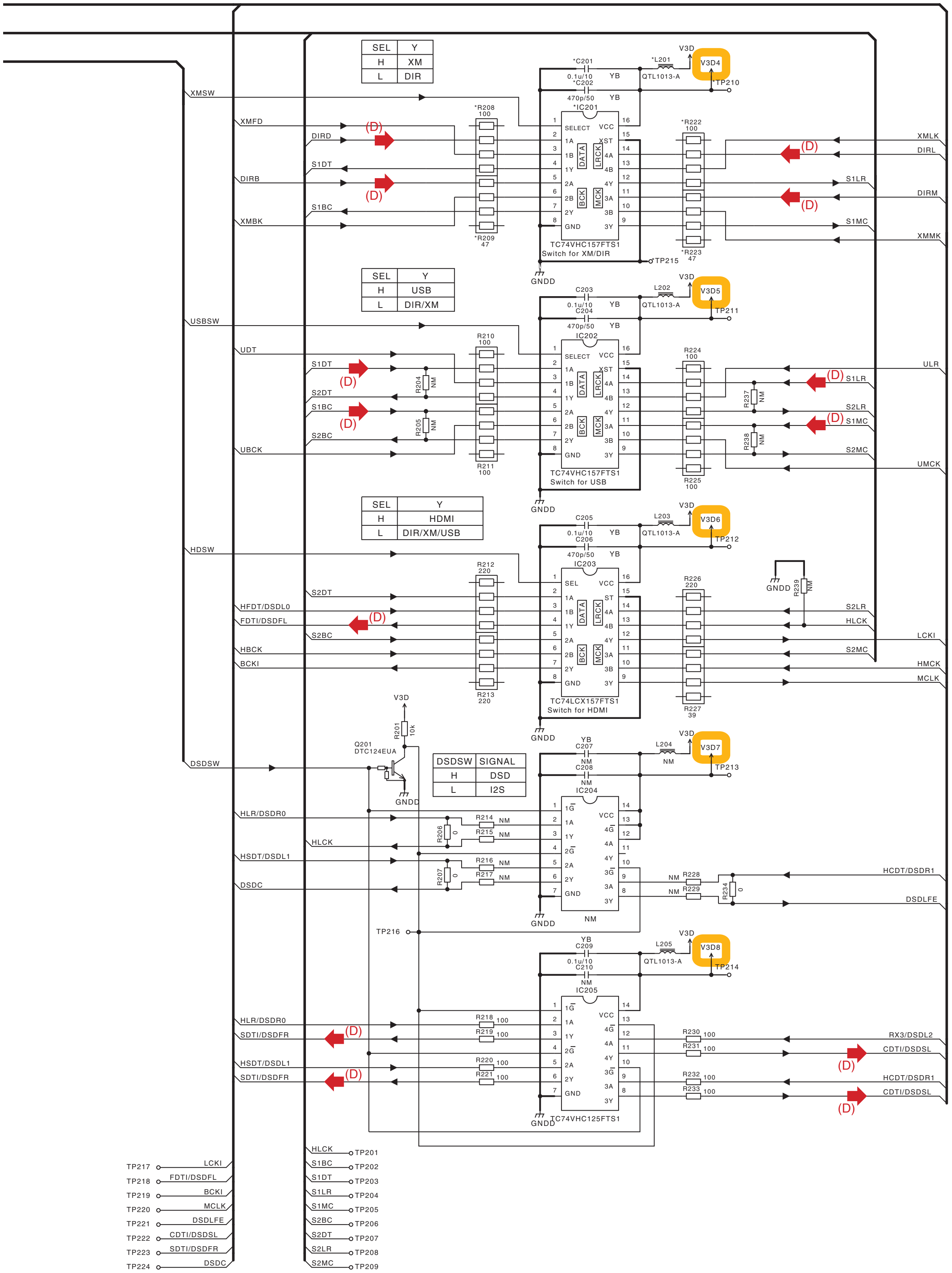
(Cb): Video Signal Route (Component Cb ch)

(Cr): Video Signal Route (Component Cr ch)

10.7 DSP & USB ASSY (1/5)


COAX
JA101
AKB7173-A
RX0 COAX1
RX1 COAX2
JA102
DIGITAL IN 1
GP1FAV51RKBF
JA103
DIGITAL IN 2
*JA104
DIGITAL IN 3
AWX9175_only
JA105
DIGITAL OUT
GP1FAV51TK0F
JA106
DIGITAL OUT FOR ZONE3
(GP1FAV51TK0F)
IC101
AK4114VQ
DIR&DIT
*IC102
AAT4618IGV-0.5-1
*IC103
BU9450KV
*JA131
AKP7201-A
*X131
ASS7065-A
45.1584MHz
V5D2
V3D1
V5D1
V3D2
V3D3
V5X1
V5X2
C 2/5, 3/5, 4/5, 5/5
C 3/5
DIRERR3
DIRCS
DSPCLK
DSPDI
DIRDO3
DIRRST
OSCD
DAUX
DIRB
DIRD
DIRL
DIRM
XMRST
XMLNK3
XMFS3
XMANT3
XMDI3
XMDO3
XMLSDP3
XMMUTE3
XMMK
XMLK
XMBK
XMFD
XMDT4M
XMSCRT
XMPWR
XMERR
GND
GNDD
GCH
XM Ready

C 1/5 DSP & USB ASSY (VSX-03TXH,VSX-9130TXH-K : AWX9175) (VSX-01TXH, VSX-1018AH-K : AWX9239)



SEL	Y
H	XM
L	DIR

SEL	Y
H	USB
L	DIR/XM

SEL	Y
H	HDMI
L	DIR/XM/USB

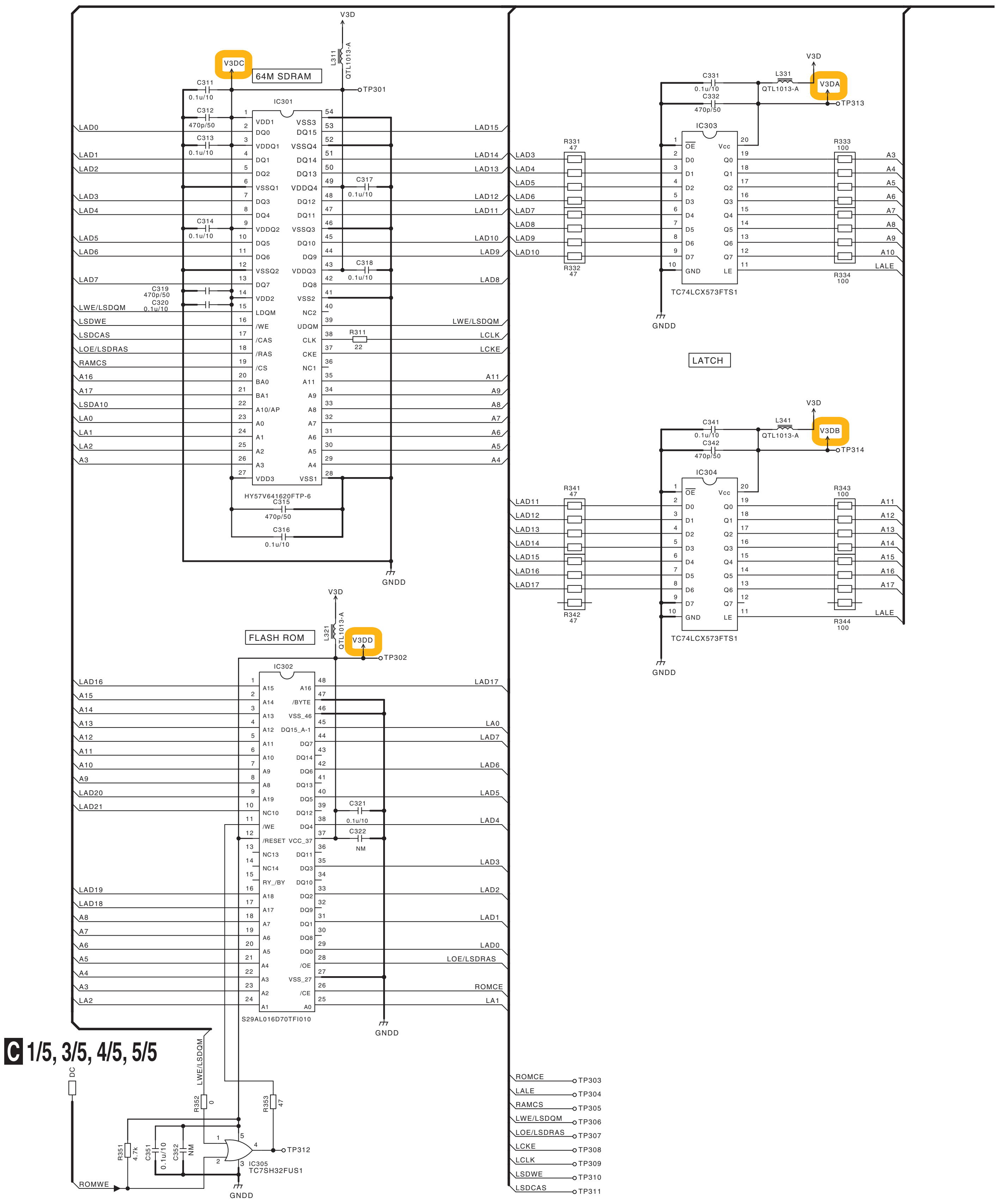
DSDSW	SIGNAL
H	DSD
L	I2S

XMSW
XMFD
DIRD
S1DT
DIRB
S1BC
XMBK
USBSW
UDT
S2DT
S2BC
UBCK
HDSW
HFDT/DSDL0
FDTI/DSDFL
HBCK
BCKI
DSDSW
HLR/DSDR0
HLCK
HSDT/DSDL1
DSDC
SDTI/DSDFR
*C201 0.1u/10 YB
*C202 470p/50 YB
*L201 QTL1013-A
V3D
V3D4
*TP210
*IC201
TC74VHC157FTS1
Switch for XM/DIR
*R208 100
*R209 47
*R222 100
*R223 47
TP215
GNDD
XMLK
DIRL
S1LR
DIRM
S1MC
XMMK
C203 0.1u/10 YB
C204 470p/50 YB
L202 QTL1013-A
V3D5
TP211
IC202
TC74VHC157FTS1
Switch for USB
R210 100
R211 100
R204 NM
R205 NM
R224 100
R225 100
R237 NM
R238 NM
ULR
S1LR
S2LR
S1MC
S2MC
UMCK
C205 0.1u/10 YB
C206 470p/50 YB
L203 QTL1013-A
V3D6
TP212
IC203
TC74LCX157FTS1
Switch for HDMI
R212 220
R213 220
R226 220
R227 39
R239 NM
HLCK
LCKI
HMCK
MCLK
R201 10k
Q201 DTC124EUA
YB C207 NM
C208 NM
L204 NM
V3D7
TP213
IC204
R214 NM
R215 NM
R216 NM
R217 NM
R206 0
R207 0
R228 NM
R229 NM
R234 0
HCDT/DSDR1
DSDLFE
TP216
YB C209 0.1u/10
C210 NM
L205 QTL1013-A
V3D8
TP214
IC205
TC74VHC125FTS1
R218 100
R219 100
R220 100
R221 100
R230 100
R231 100
R232 100
R233 100
RX3/DSDL2
CDTI/DSDSL
(D)
SELECT VCC 1A XST 1B DATA LRCK 4A 1Y 4B 2A 4Y 2B BCK MCK 3A 2Y 3B GND 3Y
1G 1A 1Y 2G 2A 2Y GND VCC 4G 4A 4Y 3G 3A 3Y
TP217 LCKI
TP218 FDTI/DSDFL
TP219 BCKI
TP220 MCLK
TP221 DSDLFE
TP222 CDTI/DSDSL
TP223 SDTI/DSDFR
TP224 DSDC
HLCK TP201
S1BC TP202
S1DT TP203
S1LR TP204
S1MC TP205
S2BC TP206
S2DT TP207
S2LR TP208
S2MC TP209

(D) : Audio Data Route

C 1/5

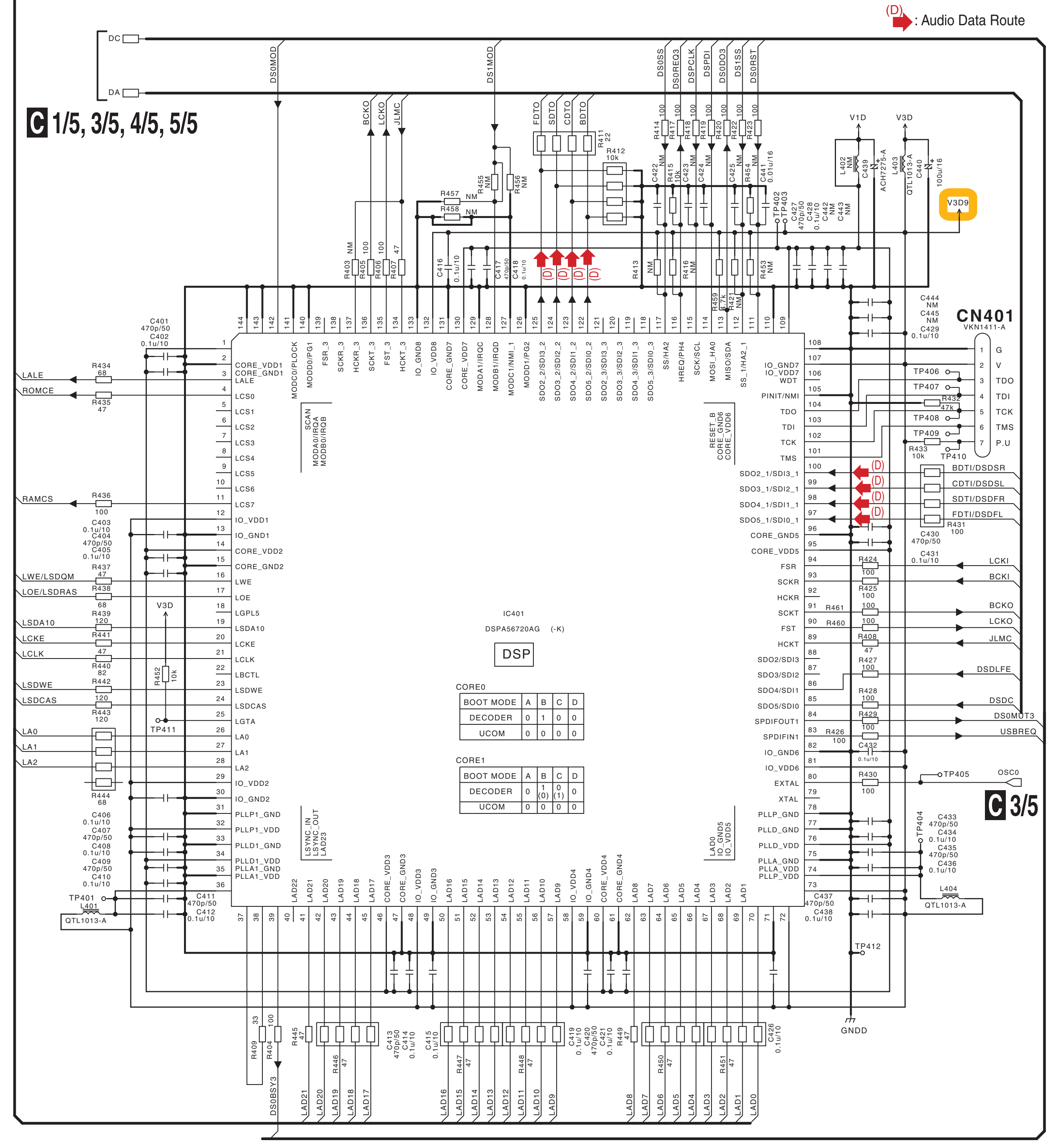
10.8 DSP & USB ASSY (2/5)


C 1/5, 3/5, 4/5, 5/5
64M SDRAM
IC301
HY57V641620FTP-6
V3D
V3DC
L311 QTL1013-A
TP301
C311 0.1u/10
C312 470p/50
C313 0.1u/10
C314 0.1u/10
C317 0.1u/10
C318 0.1u/10
C319 470p/50
C320 0.1u/10
C315 470p/50
C316 0.1u/10
R311 22
VDD1 DQ0 VDDQ1 DQ1 DQ2 VSSQ1 DQ3 DQ4 VDDQ2 DQ5 DQ6 VSSQ2 DQ7 VDD2 LDQM /WE /CAS /RAS /CS BA0 BA1 A10/AP A0 A1 A2 A3 VDD3
VSS3 DQ15 VSSQ4 DQ14 DQ13 VDDQ4 DQ12 DQ11 VSSQ3 DQ10 DQ9 VDDQ3 DQ8 VSS2 NC2 UDQM CLK CKE NC1 A11 A9 A8 A7 A6 A5 A4 VSS1
LAD0 LAD1 LAD2 LAD3 LAD4 LAD5 LAD6 LAD7 LWE/LSDQM LSDWE LSDCAS LOE/LSDRAS RAMCS A16 A17 LSDA10 LA0 LA1 LA2 A3
LAD15 LAD14 LAD13 LAD12 LAD11 LAD10 LAD9 LAD8 LWE/LSDQM LCLK LCKE A11 A9 A8 A7 A6 A5 A4
GNDD
FLASH ROM
IC302
S29AL016D70TFI010
V3DD
L321 QTL1013-A
TP302
C321 0.1u/10
C322 NM
A15 A14 A13 A12 A11 A10 A9 A8 A19 NC10 /WE /RESET NC13 NC14 RY_/BY A18 A17 A7 A6 A5 A4 A3 A2 A1
A16 /BYTE VSS_46 DQ15_A-1 DQ7 DQ14 DQ6 DQ13 DQ5 DQ12 DQ4 VCC_37 DQ11 DQ3 DQ10 DQ2 DQ9 DQ1 DQ8 DQ0 /OE VSS_27 /CE A0
LAD16 A15 A14 A13 A12 A11 A10 A9 LAD20 LAD21 LAD19 LAD18 A8 A7 A6 A5 A4 A3 LA2
LAD17 LA0 LAD7 LAD6 LAD5 LAD4 LAD3 LAD2 LAD1 LAD0 LOE/LSDRAS ROMCE LA1
IC305 TC7SH32FUS1
R351 4.7k
C351 0.1u/10
C352 NM
R352 0
R353 47
TP312
DC
LWE/LSDQM
ROMWE
LATCH
IC303 TC74LCX573FTS1
IC304 TC74LCX573FTS1
V3DA
V3DB
L331 QTL1013-A
L341 QTL1013-A
TP313
TP314
C331 0.1u/10
C332 470p/50
C341 0.1u/10
C342 470p/50
R331 47
R332 47
R333 100
R334 100
R341 47
R342 47
R343 100
R344 100
OE D0 D1 D2 D3 D4 D5 D6 D7 GND
Vcc Q0 Q1 Q2 Q3 Q4 Q5 Q6 Q7 LE
LAD3 LAD4 LAD5 LAD6 LAD7 LAD8 LAD9 LAD10
A3 A4 A5 A6 A7 A8 A9 A10 LALE
LAD11 LAD12 LAD13 LAD14 LAD15 LAD16 LAD17
A11 A12 A13 A14 A15 A16 A17 LALE
ROMCE TP303
LALE TP304
RAMCS TP305
LWE/LSDQM TP306
LOE/LSDRAS TP307
LCKE TP308
LCLK TP309
LSDWE TP310
LSDCAS TP311

C 2/5

C 2/5 DSP & USB ASSY
(VSX-03TXH,VSX-9130TXH-K : AWX9175)
(VSX-01TXH, VSX-1018AH-K : AWX9239)

(D) : Audio Data Route



C 1/5, 3/5, 4/5, 5/5
DC
DA
DS0MOD
DS1MOD
BCKO
LCKO
JLMC
FDTO
SDTO
CDTO
BDTO
DS0SS
DS0REQ3
DSPCLK
DSPDI
DS0DO3
DS1SS
DS0RST
V1D
V3D
V3D9
R411 22
R412 10k
R414 100
R417 100
R418 100
R419 100
R420 100
R422 100
R423 100
R415 10k
R416 NM
R413 NM
R453 NM
R454 NM
R455 NM
R456 NM
R457 NM
R458 NM
R459 4.7k
R421 NM
R403 NM
R405 100
R406 100
R407 47
C416 0.1u/10
C417 470p/50
C418 0.1u/10
C422 NM
C423 NM
C424 NM
C425 NM
C441 0.01u/16
TP402
TP403
C427 470p/50
C428 0.1u/10
C442 NM
C443 NM
L402 NM
C439 NM
ACH7275-A
L403 QTL1013-A
C440 100u/16
C444 NM
C445 NM
C429 0.1u/10
CN401
VKN1411-A
1 G
2 V
3 TDO
4 TDI
5 TCK
6 TMS
7 P.U
TP406
TP407
TP408
TP409
TP410
R432 47k
R433 10k
BDTI/DSDSR
CDTI/DSDSL
SDTI/DSDFR
FDTI/DSDFL
C430 470p/50
C431 0.1u/10
R431 100
LCKI
BCKI
BCKO
LCKO
JLMC
DSDLFE
DSDC
DS0MOUT3
USBREQ
R424 100
R425 100
R461
R460
R408 47
R427 100
R428 100
R429 100
R426 100
R430 100
C432 0.1u/10
TP405
OSC0
C 3/5
TP404
C433 470p/50
C434 0.1u/10
C435 470p/50
C436 0.1u/10
L404 QTL1013-A
C437 470p/50
C438 0.1u/10
TP412
GNDD
C401 470p/50
C402 0.1u/10
LALE
ROMCE
R434 68
R435 47
RAMCS
R436 100
C403 0.1u/10
C404 470p/50
C405 0.1u/10
LWE/LSDQM
LOE/LSDRAS
LSDA10
LCKE
LCLK
LSDWE
LSDCAS
R437 47
R438 68
R439 120
R441 47
R440 82
R442 120
R443 120
R452 10k
TP411
LA0
LA1
LA2
R444 68
C406 0.1u/10
C407 470p/50
C408 0.1u/10
C409 470p/50
C410 0.1u/10
TP401
L401 QTL1013-A
C411 470p/50
C412 0.1u/10
IC401
DSPA56720AG (-K)
DSP
CORE0
CORE1
R409 33
R404 100
DS0BSY3
R445 47
R446 47
C413 470p/50
C414 0.1u/10
C415 0.1u/10
R447 47
R448 47
C419 0.1u/10
C420 470p/50
C421 0.1u/10
R449 47
R450 47
R451 47
C426 0.1u/10
LAD21 LAD20 LAD19 LAD18 LAD17 LAD16 LAD15 LAD14 LAD13 LAD12 LAD11 LAD10 LAD9 LAD8 LAD7 LAD6 LAD5 LAD4 LAD3 LAD2 LAD1 LAD0
1 2 CORE_VDD1 3 CORE_GND1 LALE 4 LCS0 5 LCS1 6 LCS2 7 LCS3 8 LCS4 9 LCS5 10 LCS6 11 LCS7 12 IO_VDD1 13 IO_GND1 14 CORE_VDD2 15 CORE_GND2 16 LWE 17 LOE 18 LGPL5 19 LSDA10 20 LCKE 21 LCLK 22 LBCTL 23 LSDWE 24 LSDCAS 25 LGTA 26 LA0 27 LA1 28 LA2 29 IO_VDD2 30 IO_GND2 31 PLLP1_GND 32 PLLP1_VDD 33 PLLD1_GND 34 PLLD1_VDD 35 PLLA1_GND 36 PLLA1_VDD
37 38 39 40 41 LAD22 42 LAD21 43 LAD20 44 LAD19 45 LAD18 46 LAD17 47 CORE_VDD3 48 CORE_GND3 49 IO_VDD3 50 IO_GND3 51 LAD16 52 LAD15 53 LAD14 54 LAD13 55 LAD12 56 LAD11 57 LAD10 58 LAD9 59 IO_VDD4 60 IO_GND4 61 CORE_VDD4 62 CORE_GND4 63 LAD8 64 LAD7 65 LAD6 66 LAD5 67 LAD4 68 LAD3 69 LAD2 70 LAD1 71 72
LSYNC_IN LSYNC_OUT LAD23
LAD0 IO_GND5 IO_VDD5
73 PLLP_VDD 74 PLLA_VDD 75 PLLA_GND 76 PLLD_VDD 77 PLLD_GND 78 PLLP_GND 79 XTAL 80 EXTAL 81 IO_VDD6 82 IO_GND6 83 SPDIFIN1 84 SPDIFOUT1 85 SDO5/SDI0 86 SDO4/SDI1 87 SDO3/SDI2 88 SDO2/SDI3 89 HCKT 90 FST 91 SCKT 92 HCKR 93 SCKR 94 FSR 95 CORE_VDD5 96 CORE_GND5 97 SDO5_1/SDIO_1 98 SDO4_1/SDI1_1 99 SDO3_1/SDI2_1 100 SDO2_1/SDI3_1 101 TMS 102 TCK 103 TDI 104 TDO 105 PINIT/NMI 106 WDT 107 IO_VDD7 IO_GND7 108
RESET_B CORE_GND6 CORE_VDD6
109 110 111 SS_1/HA2_1 112 113 MISO/SDA 114 MOSI_HA0 115 SCK/SCL 116 HREQ/PH4 117 SS/HA2 118 SDO5_3/SDI0_3 119 SDO4_3/SDI1_3 120 SDO3_3/SDI2_3 121 SDO2_3/SDI3_3 122 SDO5_2/SDI0_2 123 SDO4_2/SDI1_2 124 SDO3_2/SDI2_2 125 SDO2_2/SDI3_2 126 MODD1/PG2 127 MODC1/NMI_1 128 MODB1/IRQD 129 MODA1/IRQC 130 CORE_VDD7 131 CORE_GND7 132 IO_VDD8 133 IO_GND8 134 HCKT_3 135 SCKT_3 136 FST_3 137 HCKR_3 138 SCKR_3 139 FSR_3 140 MODD0/PG1 141 MODC0/PLOCK 142 143 144
SCAN MODA0/IRQA MODB0/IRQB
(D)

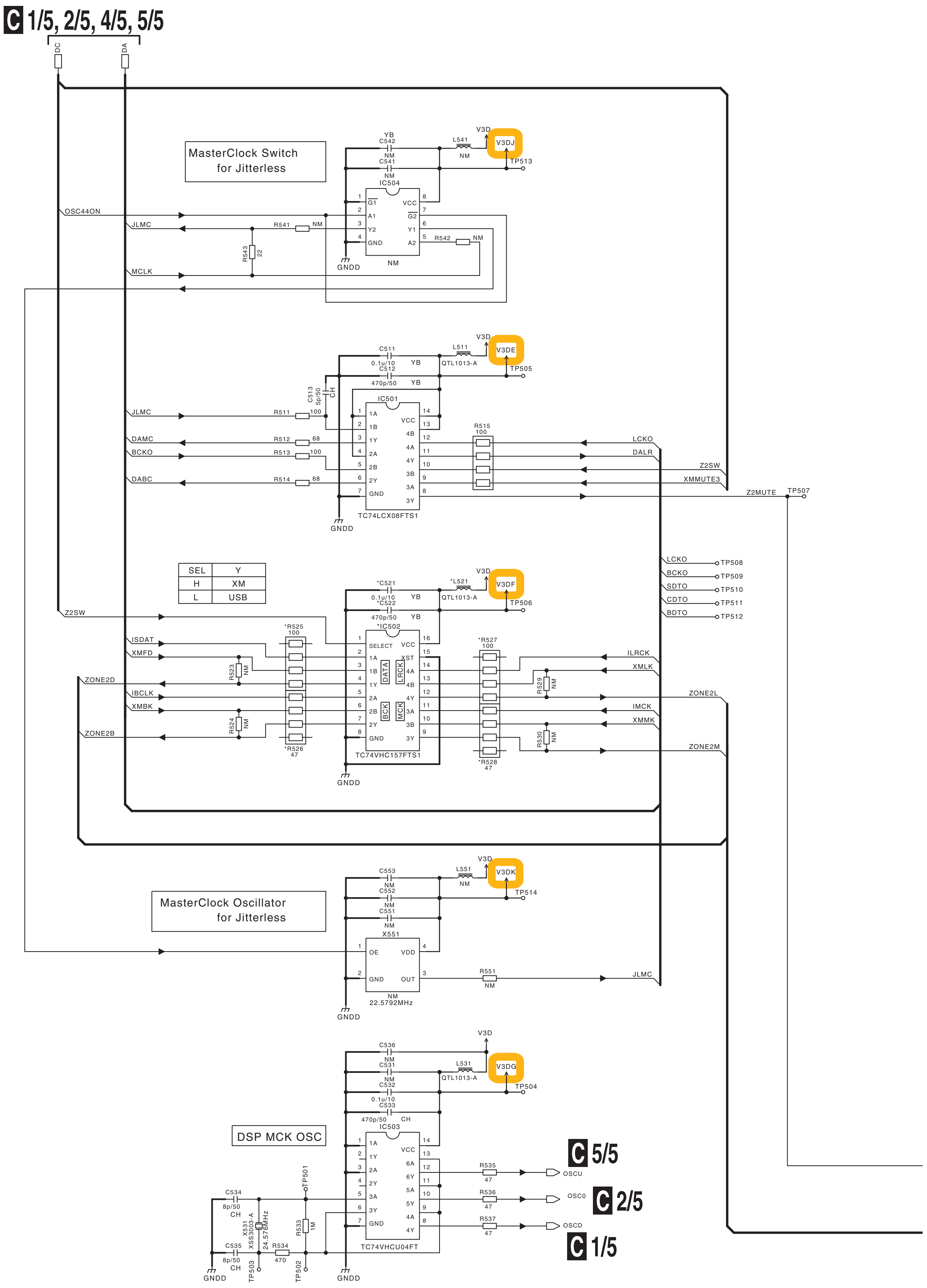
CORE0

BOOT MODE	A	B	C	D
DECODER	0	1	0	0
UCOM	0	0	0	0

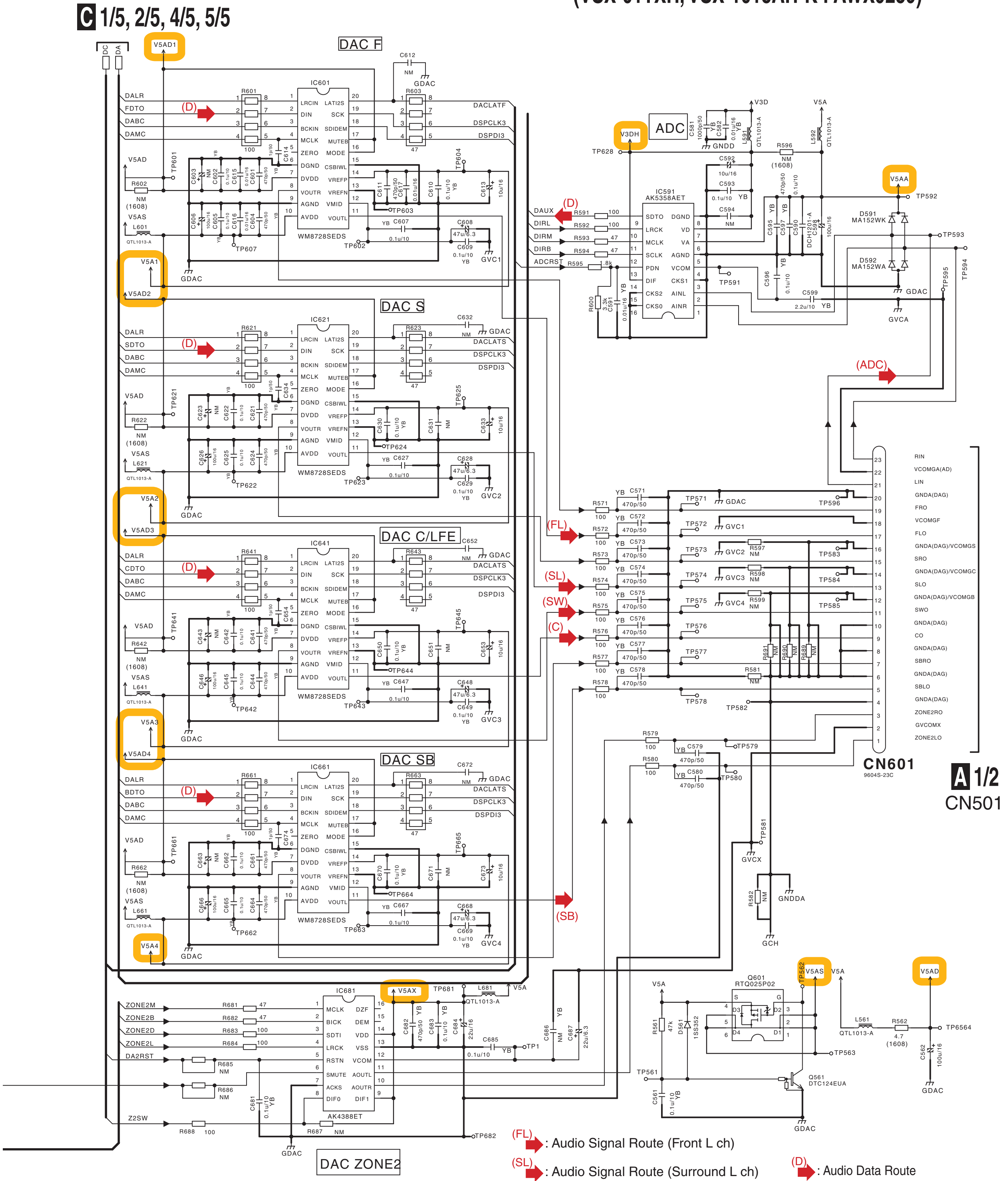
CORE1

BOOT MODE	A	B	C	D
DECODER	0	1 (0)	0 (1)	0
UCOM	0	0	0	0

10.9 DSP & USB ASSY (3/5)


C 1/5, 2/5, 4/5, 5/5
DC
DA
MasterClock Switch for Jitterless
V3D
V3DJ
TP513
L541
NM
YB
C542
NM
C541
NM
IC504
G1
VCC
A1
G2
Y2
Y1
GND
A2
R542
NM
R541
NM
R543
22
GNDD
OSC44ON
JLMC
MCLK
V3DE
TP505
C511
0.1u/10
YB
C512
470p/50
YB
L511
QTL1013-A
C513
5p/50
CH
IC501
R511
100
R512
68
R513
100
R514
68
R515
100
JLMC
DAMC
BCKO
DABC
1A
1B
1Y
2A
2B
2Y
GND
VCC
4B
4A
4Y
3B
3A
3Y
TC74LCX08FTS1
LCKO
DALR
Z2SW
XMMUTE3
Z2MUTE
TP507
LCKO TP508
BCKO TP509
SDTO TP510
CDTO TP511
BDTO TP512
SEL | Y
H | XM
L | USB
V3DF
TP506
*C521
0.1u/10
YB
*C522
470p/50
YB
*L521
QTL1013-A
*IC502
SELECT
1A
1B
1Y
2A
2B
2Y
GND
VCC
XST
4A
4B
4Y
3A
3B
3Y
DATA
LRCK
BCK
MCK
TC74VHC157FTS1
*R525
100
*R526
47
*R527
100
*R528
47
R523
NM
R524
NM
R529
NM
R530
NM
Z2SW
ISDAT
XMFD
ZONE2D
IBCLK
XMBK
ZONE2B
ILRCK
XMLK
ZONE2L
IMCK
XMMK
ZONE2M
MasterClock Oscillator for Jitterless
V3DK
TP514
C553
NM
C552
NM
C551
NM
L551
NM
X551
OE
VDD
GND
OUT
NM
22.5792MHz
R551
NM
JLMC
V3DG
TP504
C536
NM
C531
NM
C532
0.1u/10
C533
470p/50
CH
L531
QTL1013-A
DSP MCK OSC
IC503
1A
1Y
2A
2Y
3A
3Y
GND
VCC
6A
6Y
5A
5Y
4A
4Y
TC74VHCU04FT
C534
8p/50
CH
C535
8p/50
CH
X531
XSS3003-A
24.576MHz
R534
470
R533
1M
TP501
TP502
TP503
R535
47
R536
47
R537
47
OSCU
OSCO
OSCD
C 5/5
C 2/5
C 1/5

C 3/5 DSP & USB ASSY (VSX-03TXH,VSX-9130TXH-K : AWX9175) (VSX-01TXH, VSX-1018AH-K : AWX9239)


C 1/5, 2/5, 4/5, 5/5
DC
DA
V5AD1
DAC F
DAC S
DAC C/LFE
DAC SB
DAC ZONE2
ADC
IC601
IC621
IC641
IC661
WM8728SEDS
IC591
AK5358AET
IC681
AK4388ET
Q601
RTQ025P02
Q561
DTC124EUA
D591
MA152WK
D592
MA152WA
D561
1SS352
DALR
FDTO
SDTO
CDTO
BDTO
DABC
DAMC
DACLATF
DACLATS
DSPCLK3
DSPDI3
DAUX
DIRL
DIRM
DIRB
ADCRST
ZONE2M
ZONE2B
ZONE2D
ZONE2L
DA2RST
Z2SW
V5AD
V5AS
V5A1
V5AD2
V5A2
V5AD3
V5A3
V5AD4
V5A4
V3DH
V3D
V5A
V5AA
V5AX
GDAC
GVC1
GVC2
GVC3
GVC4
GVCA
GVCX
GNDD
GNDDA
GCH
LRCIN
DIN
BCKIN
MCLK
ZERO
DGND
DVDD
VOUTR
AGND
AVDD
LATI2S
SCK
SDIEM
MUTEB
MODE
CSBIWL
VREFP
VREFN
VMID
VOUTL
SDTO
LRCK
SCLK
PDN
DIF
CKS2
CKS0
VD
VA
VCOM
CKS1
AINL
AINR
BICK
SDTI
RSTN
SMUTE
ACKS
DIF0
DZF
DEM
VDD
VSS
AOUTL
AOUTR
DIF1
(D)
(ADC)
(FL)
(SL)
(SW)
(C)
(SB)
CN601
9604S-23C
RIN
VCOMGA(AD)
LIN
GNDA(DAG)
FRO
VCOMGF
FLO
GNDA(DAG)/VCOMGS
SRO
GNDA(DAG)/VCOMGC
SLO
GNDA(DAG)/VCOMGB
SWO
GNDA(DAG)
CO
GNDA(DAG)
SBRO
GNDA(DAG)
SBLO
GNDA(DAG)
ZONE2RO
GVCOMX
ZONE2LO
A 1/2
CN501

(FL) : Audio Signal Route (Front L ch)

(SL) : Audio Signal Route (Surround L ch)

(C) : Audio Signal Route (Center ch)

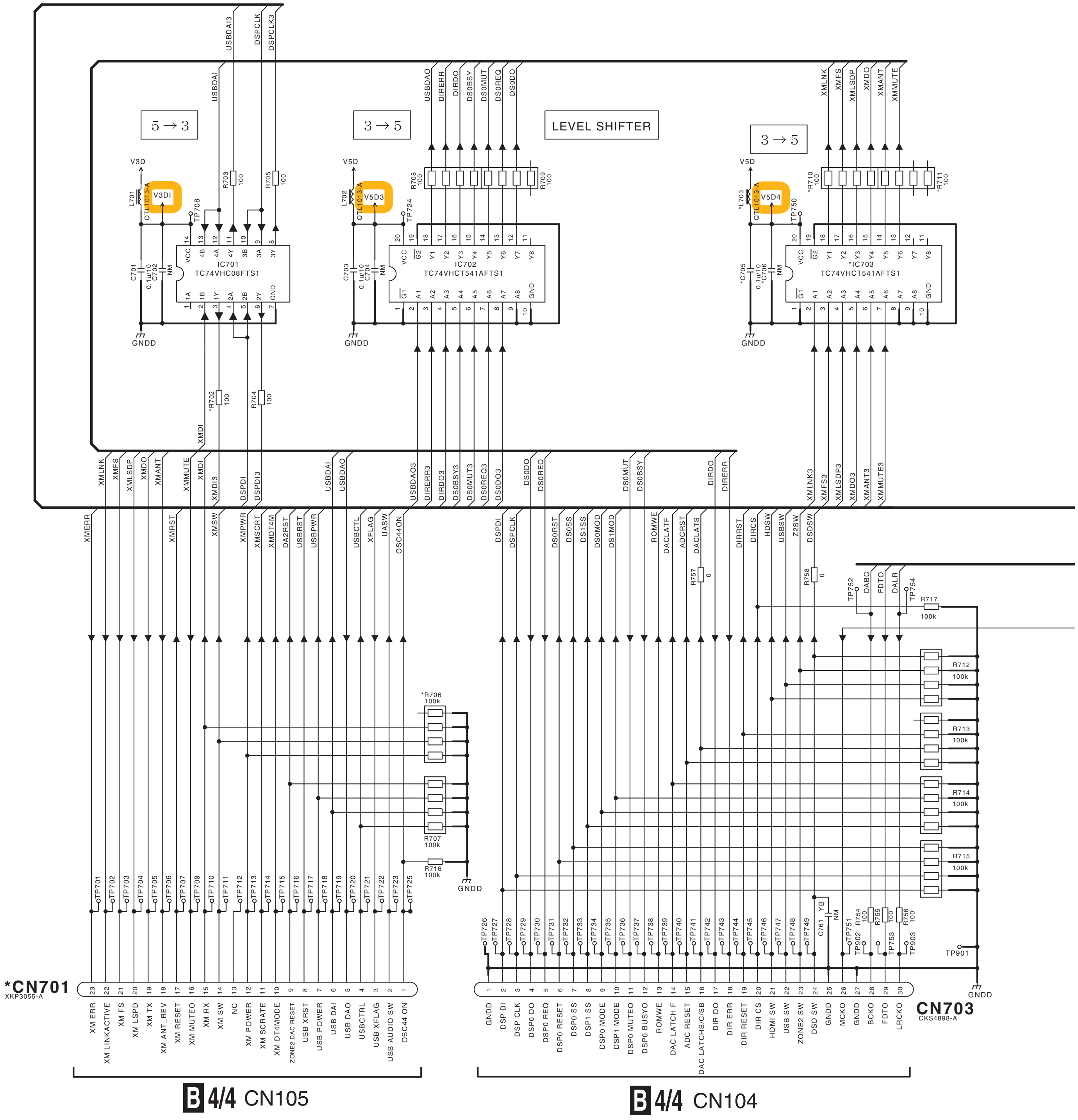
(SB) : Audio Signal Route (Surround Back L ch)

(SW) : Audio Signal Route (SubWoofer ch)

(D) : Audio Data Route

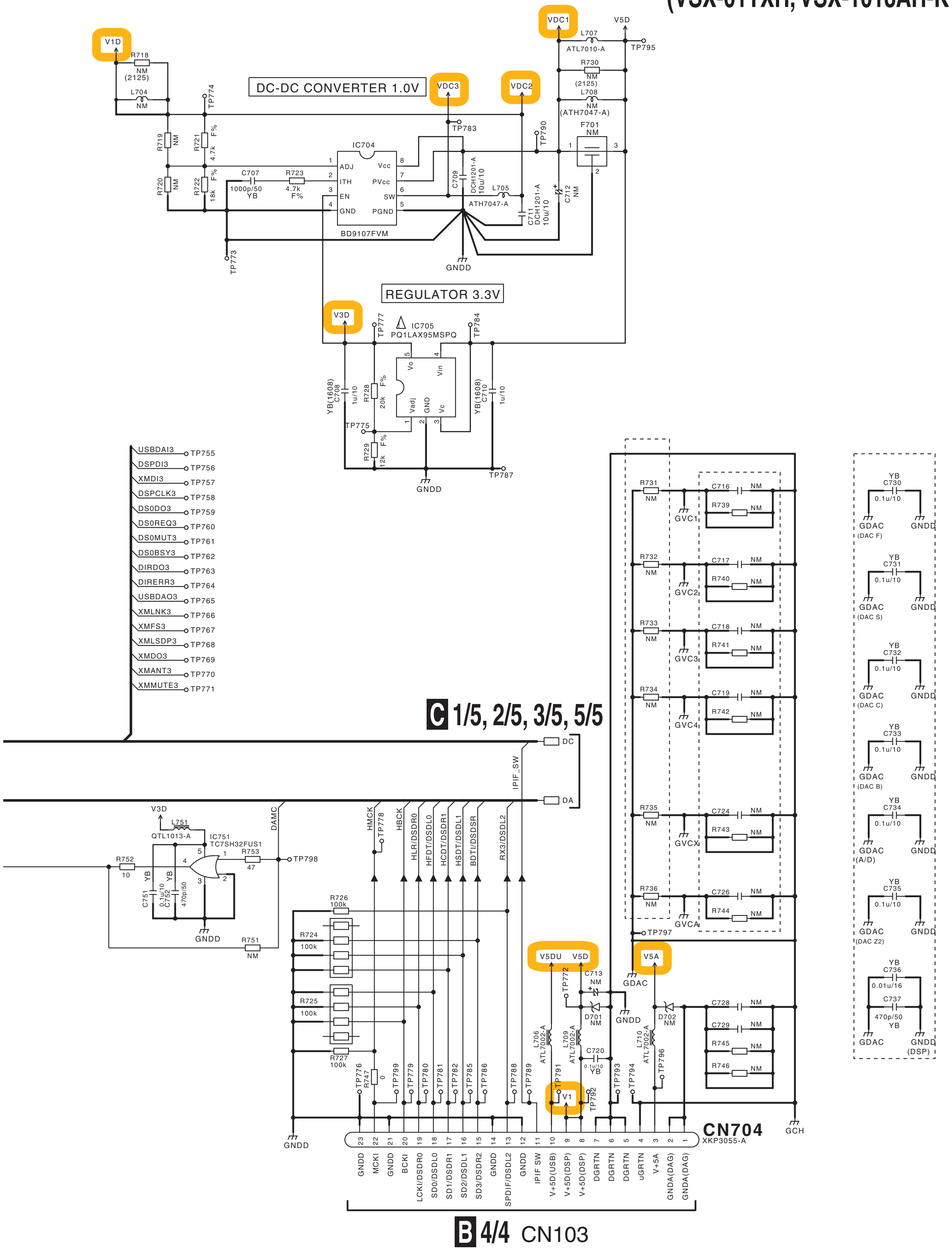
(ADC) : Audio Signal Route (ADC L ch)

10.10 DSP & USB ASSY (4/5)



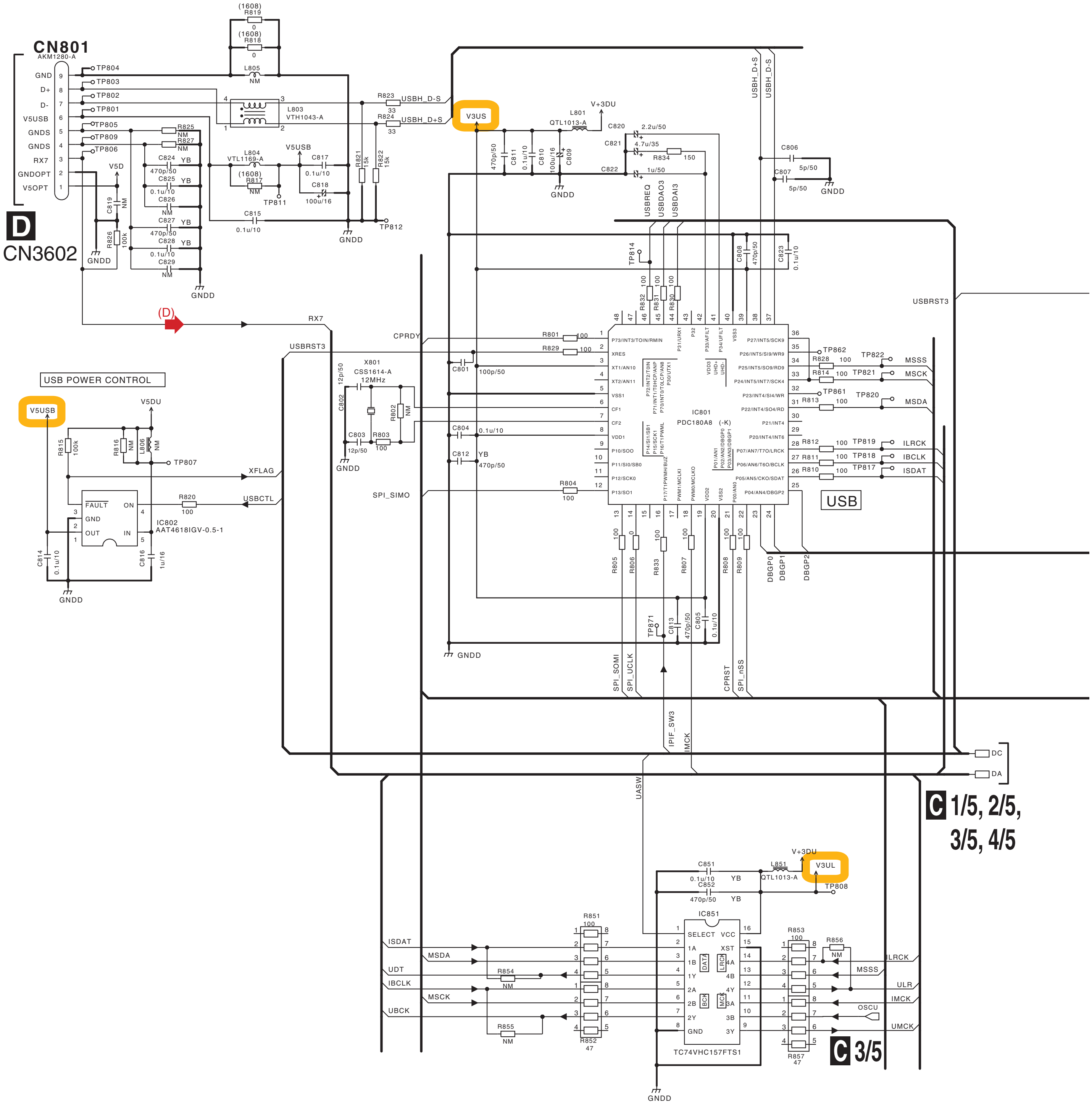
5 → 3
3 → 5
LEVEL SHIFTER
3 → 5
V3D
V5D
V5D
L701 QTL1013-A
L702 QTL1013-A
*L703 QTL1013-A
V3DI
V5D3
V5D4
TP708
TP724
TP750
C701 0.1u/10
C702 NM
C703 0.1u/10
C704 NM
*C705 0.1u/10
*C706 NM
IC701 TC74VHC08FTS1
IC702 TC74VHCT541AFTS1
*IC703 TC74VHCT541AFTS1
GNDD
R703 100
R705 100
*R702 100
R704 100
R708 100
R709 100
*R710 100
*R711 100
USBDAI3
DSPCLK
DSPCLK3
USBDAI
USBDAO
DIRERR
DIRDO
DS0BSY
DS0MUT
DS0REQ
DS0DO
XMLNK
XMFS
XMLSDP
XMDO
XMANT
XMMUTE
XMDI
XMDI3
DSPDI
DSPDI3
USBDAO3
DIRERR3
DIRDO3
DS0BSY3
DS0MUT3
DS0REQ3
DS0DO3
XMLNK3
XMFS3
XMLSDP3
XMDO3
XMANT3
XMMUTE3
XMERR
XMRST
XMSW
XMPWR
XMSCRT
XMDT4M
DA2RST
USBRST
USBPWR
USBCTL
XFLAG
UASW
OSC44ON
DSPDI
DSPCLK
DS0RST
DS0SS
DS1SS
DS0MOD
DS1MOD
ROMWE
DACLATF
ADCRST
DACLATS
DIRRST
DIRCS
HDSW
USBSW
Z2SW
DSDSW
R757 0
R758 0
TP752
DABC
FDTO
DALR
TP754
R717 100k
*R706 100k
R707 100k
R716 100k
R712 100k
R713 100k
R714 100k
R715 100k
C761 YB NM
R754 100
R755 100
R756 100
TP701 TP702 TP703 TP704 TP705 TP706 TP707 TP709 TP710 TP711 TP712 TP713 TP714 TP715 TP716 TP717 TP718 TP719 TP720 TP721 TP722 TP723 TP725
TP726 TP727 TP728 TP729 TP730 TP731 TP732 TP733 TP734 TP735 TP736 TP737 TP738 TP739 TP740 TP741 TP742 TP743 TP744 TP745 TP746 TP747 TP748 TP749 TP751 TP902 TP753 TP903
TP901
*CN701 XKP3055-A
23 XM ERR
22 XM LINKACTIVE
21 XM FS
20 XM LSPD
19 XM TX
18 XM ANT_REV
17 XM RESET
16 XM MUTEO
15 XM RX
14 XM SW
13 NC
12 XM POWER
11 XM SCRATE
10 XM DT4MODE
9 ZONE2 DAC RESET
8 USB XRST
7 USB POWER
6 USB DAI
5 USB DAO
4 USBCTRL
3 USB XFLAG
2 USB AUDIO SW
1 OSC44 ON
CN703 CKS4898-A
1 GNDD
2 DSP DI
3 DSP CLK
4 DSP0 DO
5 DSP0 REQ
6 DSP0 RESET
7 DSP0 SS
8 DSP1 SS
9 DSP0 MODE
10 DSP1 MODE
11 DSP0 MUTEO
12 DSP0 BUSYO
13 ROMWE
14 DAC LATCH F
15 ADC RESET
16 DAC LATCHS/C/SB
17 DIR DO
18 DIR ERR
19 DIR RESET
20 DIR CS
21 HDMI SW
22 USB SW
23 ZONE2 SW
24 DSD SW
25 GNDD
26 MCKO
27 GNDD
28 BCKO
29 FDTO
30 LRCKO
B 4/4 CN105
B 4/4 CN104

C 4/5 DSP & USB ASSY
(VSX-03TXH,VSX-9130TXH-K : AWX9175)
(VSX-01TXH, VSX-1018AH-K : AWX9239)



V1D
R718
NM
(2125)
L704
NM
TP774
R719
NM
R721
4.7k
F%
R720
NM
R722
18k
F%
DC-DC CONVERTER 1.0V
VDC3
VDC2
VDC1
V5D
L707
ATL7010-A
TP795
R730
NM
(2125)
L708
NM
(ATH7047-A)
F701
NM
TP783
TP790
IC704
ADJ
ITH
EN
GND
Vcc
PVcc
SW
PGND
BD9107FVM
C707
1000p/50
YB
R723
4.7k
F%
C709
DCH1201-A
10u/10
L705
ATH7047-A
C711
DCH1201-A
10u/10
C712
NM
TP773
GNDD
REGULATOR 3.3V
V3D
TP777
IC705
PQ1LAX95MSPQ
TP784
Vo
Vin
Vadj
GND
Vc
C708
YB(1608)
1u/10
R728
20k
F%
C710
YB(1608)
1u/10
TP775
R729
12k
F%
GNDD
TP787
USBDAI3 TP755
DSPDI3 TP756
XMDI3 TP757
DSPCLK3 TP758
DS0DO3 TP759
DS0REQ3 TP760
DS0MUT3 TP761
DS0BSY3 TP762
DIRDO3 TP763
DIRERR3 TP764
USBDAO3 TP765
XMLNK3 TP766
XMFS3 TP767
XMLSDP3 TP768
XMDO3 TP769
XMANT3 TP770
XMMUTE3 TP771
C 1/5, 2/5, 3/5, 5/5
DC
DA
IPIF_SW
V3D
L751
QTL1013-A
IC751
TC7SH32FUS1
R753
47
TP798
R752
10
C751
0.1u/10
YB
C752
470p/50
YB
GNDD
R751
NM
DAMC
HMCK
TP778
HBCK
HLR/DSDR0
HFDT/DSDL0
HCDT/DSDR1
HSDT/DSDL1
BDTI/DSDSR
RX3/DSDL2
R726
100k
R724
100k
R725
100k
R727
100k
R747
0
TP776
TP779
TP780
TP781
TP782
TP785
TP786
TP788
TP789
TP799
GNDD
R731 NM
R732 NM
R733 NM
R734 NM
R735 NM
R736 NM
GVC1
GVC2
GVC3
GVC4
GVCX
GVCA
C716 NM
R739 NM
C717 NM
R740 NM
C718 NM
R741 NM
C719 NM
R742 NM
C724 NM
R743 NM
C726 NM
R744 NM
TP797
V5DU
V5D
V5A
GDAC
GNDD
TP772
C713
NM
D701
NM
D702
NM
L706
ATL7002-A
L709
ATL7002-A
L710
ATL7002-A
C720
0.1u/10
YB
TP791
V1
TP792
TP793
TP794
TP796
C728 NM
C729 NM
R745 NM
R746 NM
GCH
CN704
XKP3055-A
23 GNDD
22 MCKI
21 GNDD
20 BCKI
19 LCKI/DSDR0
18 SD0/DSDL0
17 SD1/DSDR1
16 SD2/DSDL1
15 SD3/DSDR2
14 GNDD
13 SPDIF/DSDL2
12 GNDD
11 IPIF SW
10 V+5D(USB)
9 V+5D(DSP)
8 V+5D(DSP)
7 DGRTN
6 DGRTN
5 DGRTN
4 uGRTN
3 V+5A
2 GNDA(DAG)
1 GNDA(DAG)
B 4/4 CN103
YB C730 0.1u/10 GDAC GNDD (DAC F)
YB C731 0.1u/10 GDAC GNDD (DAC S)
YB C732 0.1u/10 GDAC GNDD (DAC C)
YB C733 0.1u/10 GDAC GNDD (DAC B)
YB C734 0.1u/10 GDAC GNDD (A/D)
YB C735 0.1u/10 GDAC GNDD (DAC Z2)
YB C736 0.01u/16
C737 470p/50 YB
GDAC GNDD (DSP)

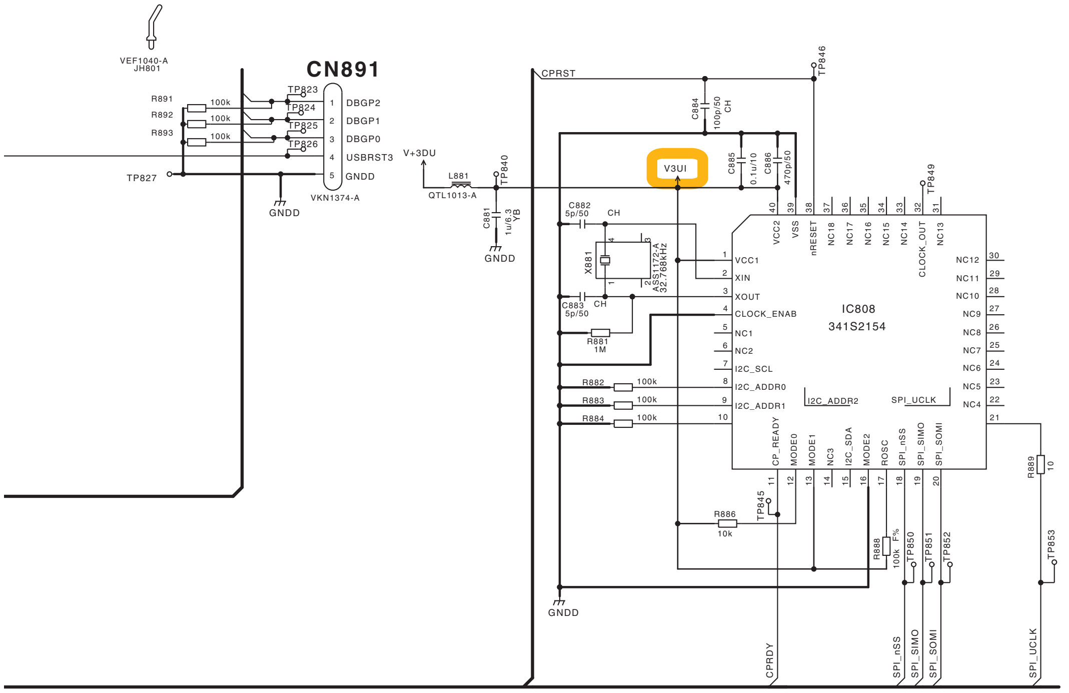
10.11 DSP & USB ASSY (5/5)

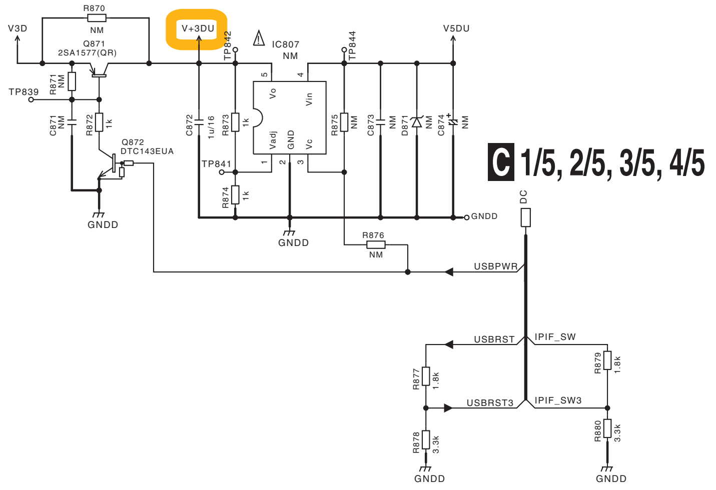

CN801
AKM1280-A
GND
D+
D-
V5USB
GNDS
GNDS
RX7
GNDOPT
V5OPT
TP804
TP803
TP802
TP801
TP805
TP809
TP806
D
CN3602
(1608)
R819
0
(1608)
R818
0
L805
NM
L803
VTH1043-A
R823
33
R824
33
USBH_D-S
USBH_D+S
V3US
V+3DU
L801
QTL1013-A
C820
2.2u/50
C821
4.7u/35
R834
150
C822
1u/50
C806
5p/50
C807
5p/50
GNDD
USBH_D+S
USBH_D-S
R825
NM
R827
NM
C824
YB
470p/50
C825
YB
0.1u/10
C826
NM
C827
YB
470p/50
C828
YB
0.1u/10
C829
NM
V5D
C819
NM
R826
100k
L804
VTL1169-A
(1608)
R817
NM
V5USB
C817
0.1u/10
C818
100u/16
TP811
C815
0.1u/10
R821
15k
R822
15k
TP812
470p/50
C811
0.1u/10
C810
100u/16
C809
USBREQ
USBDAO3
USBDAI3
TP814
C808
470p/50
C823
0.1u/10
R832
R831
R830
100
USBRST3
(D)
RX7
CPRDY
USBRST3
R801
100
R829
100
X801
CSS1614-A
12MHz
C802
12p/50
C801
100p/50
R802
NM
C803
12p/50
R803
100
C804
0.1u/10
C812
YB
470p/50
R804
100
SPI_SIMO
IC801
PDC180A8 (-K)
USB
TP862
R828
100
TP822
MSSS
R814
100
TP821
MSCK
TP861
R813
100
TP820
MSDA
R812
100
TP819
ILRCK
R811
100
TP818
IBCLK
R810
100
TP817
ISDAT
R805
R806
R833
R807
R808
R809
DBGP0
DBGP1
DBGP2
TP871
C813
470p/50
C805
0.1u/10
GNDD
SPI_SOMI
SPI_UCLK
CPRST
SPI_nSS
IPIF_SW3
IMCK
UASW
DC
DA
C 1/5, 2/5, 3/5, 4/5
USB POWER CONTROL
V5USB
V5DU
R815
100k
R816
NM
L806
NM
TP807
XFLAG
USBCTL
R820
100
IC802
AAT4618IGV-0.5-1
FAULT
ON
GND
OUT
IN
C814
0.1u/10
C816
1u/16
GNDD
V+3DU
C851
0.1u/10
YB
C852
470p/50
YB
L851
QTL1013-A
V3UL
TP808
IC851
SELECT
VCC
1A
XST
1B
4A
1Y
4B
2A
4Y
2B
3A
2Y
3B
GND
3Y
TC74VHC157FTS1
DATA
LRCK
BCK
MCK
R851
100
R852
47
R854
NM
R855
NM
ISDAT
MSDA
UDT
IBCLK
MSCK
UBCK
R853
100
R856
NM
R857
47
ILRCK
MSSS
ULR
IMCK
OSCU
UMCK
C 3/5
GNDD

SEL	Y
H	MSC
L	iPod

(D): Audio Data Route

C 5/5 DSP & USB ASSY
(VSX-03TXH,VSX-9130TXH-K : AWX9175)
(VSX-01TXH, VSX-1018AH-K : AWX9239)

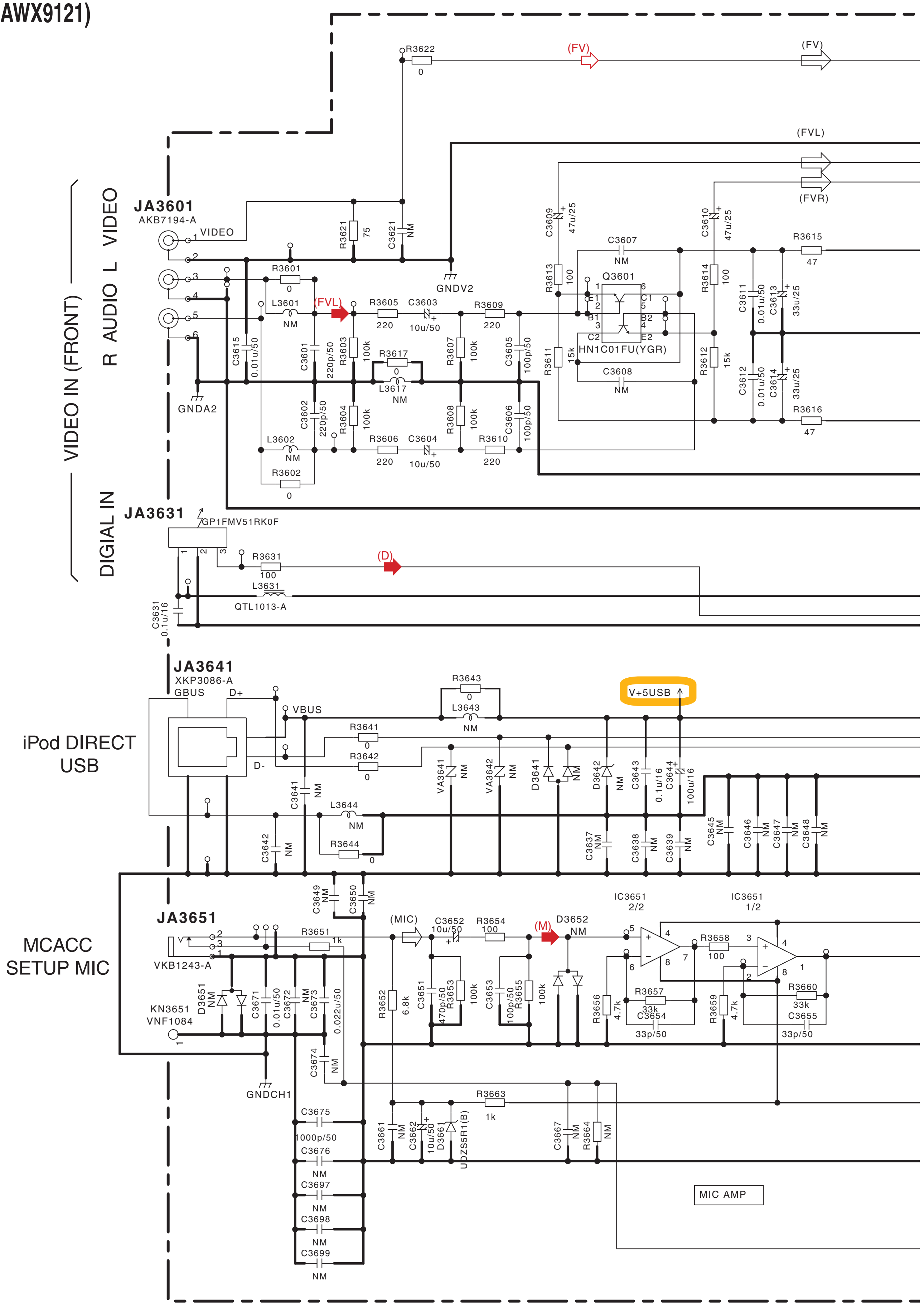

VEF1040-A
JH801
CN891
R891
R892
R893
100k
100k
100k
TP823
TP824
TP825
TP826
1 DBGP2
2 DBGP1
3 DBGP0
4 USBRST3
5 GNDD
TP827
GNDD
VKN1374-A
V+3DU
L881
QTL1013-A
TP840
C881
1u/6.3
YB
GNDD
CPRST
TP846
C884
100p/50
CH
C885
0.1u/10
C886
470p/50
V3UI
TP849
C882
5p/50
CH
X881
ASS1172-A
32.768kHz
C883
5p/50
CH
R881
1M
R882 100k
R883 100k
R884 100k
1 VCC1
2 XIN
3 XOUT
4 CLOCK_ENAB
5 NC1
6 NC2
7 I2C_SCL
8 I2C_ADDR0
9 I2C_ADDR1
10
40 VCC2
39 VSS
38 nRESET
37 NC18
36 NC17
35 NC16
34 NC15
33 NC14
32 CLOCK_OUT
31 NC13
IC808
341S2154
30 NC12
29 NC11
28 NC10
27 NC9
26 NC8
25 NC7
24 NC6
23 NC5
22 NC4
21
I2C_ADDR2
SPI_UCLK
11 CP_READY
12 MODE0
13 MODE1
14 NC3
15 I2C_SDA
16 MODE2
17 ROSC
18 SPI_nSS
19 SPI_SIMO
20 SPI_SOMI
R889
10
TP845
R886
10k
R888
100k F%
TP850
TP851
TP852
TP853
GNDD
CPRDY
SPI_nSS
SPI_SIMO
SPI_SOMI
SPI_UCLK


R870
NM
V3D
Q871
2SA1577(QR)
V+3DU
TP842
IC807
NM
TP844
V5DU
TP839
R871
NM
C871
NM
R872
1k
Q872
DTC143EUA
GNDD
C872
1u/16
R873
1k
TP841
R874
1k
5 Vo
4 Vin
1 Vadj
2 GND
3 Vc
GNDD
R875
NM
C873
NM
D871
NM
C874
NM
GNDD
R876
NM
DC
USBPWR
USBRST
IPIF_SW
USBRST3
IPIF_SW3
R877
1.8k
R878
3.3k
R879
1.8k
R880
3.3k
GNDD
GNDD

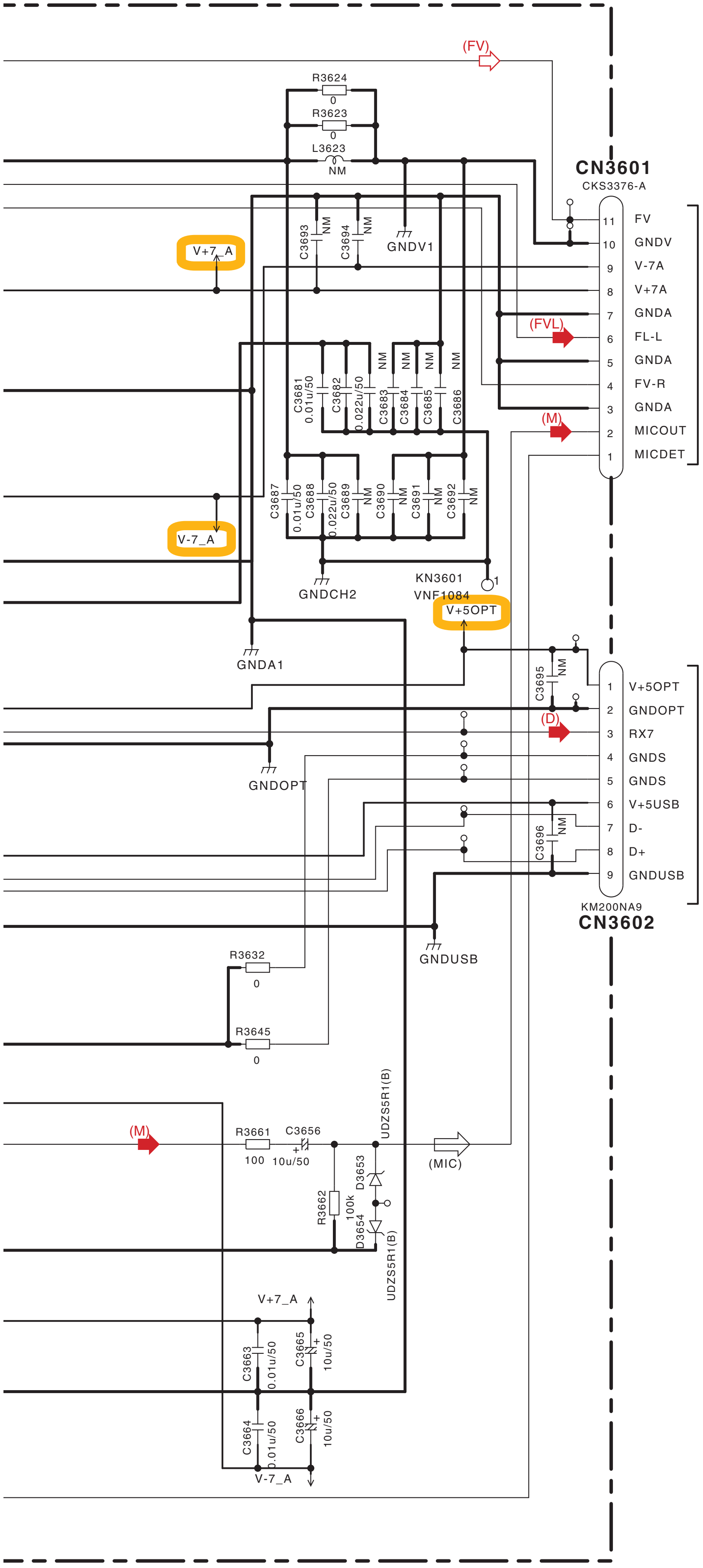
C 1/5, 2/5, 3/5, 4/5

10.12 FRONT IN ASSY

D FRONT IN ASSY
(AWX9121)



VIDEO IN (FRONT)
R AUDIO L VIDEO
DIGIAL IN
iPod DIRECT
USB
MCACC
SETUP MIC
JA3601
AKB7194-A
VIDEO
GNDA2
GNDV2
R3622
0
(FV)
(FV)
(FVL)
(FVR)
R3621
75
C3621
NM
R3601
0
L3601
NM
(FVL)
R3605
220
C3603
10u/50
R3609
220
C3615
0.01u/50
C3601
220p/50
R3603
100k
R3617
0
L3617
NM
R3607
100k
C3605
100p/50
C3602
220p/50
R3604
100k
R3608
100k
C3606
100p/50
L3602
NM
R3602
0
R3606
220
C3604
10u/50
R3610
220
C3609
47u/25
R3613
100
R3611
15k
C3607
NM
Q3601
HN1C01FU(YGR)
E1
B1
C2
C1
B2
E2
C3608
NM
C3610
47u/25
R3614
100
R3612
15k
C3611
0.01u/50
C3613
33u/25
C3612
0.01u/50
C3614
33u/25
R3615
47
R3616
47
JA3631
GP1FMV51RK0F
R3631
100
(D)
L3631
QTL1013-A
C3631
0.1u/16
JA3641
XKP3086-A
GBUS
D+
D-
VBUS
R3643
0
L3643
NM
V+5USB
R3641
0
R3642
0
VA3641
NM
VA3642
NM
D3641
NM
D3642
NM
C3643
0.1u/16
C3644
100u/16
C3641
NM
L3644
NM
R3644
0
C3642
NM
C3637
NM
C3638
NM
C3639
NM
C3645
NM
C3646
NM
C3647
NM
C3648
NM
C3649
NM
C3650
NM
JA3651
VKB1243-A
R3651
1k
KN3651
VNF1084
D3651
NM
C3671
0.01u/50
C3672
NM
C3673
0.022u/50
C3674
NM
GNDCH1
(MIC)
C3652
10u/50
R3654
100
(M)
D3652
NM
R3652
6.8k
C3651
470p/50
R3653
100k
C3653
100p/50
R3655
100k
IC3651
2/2
IC3651
1/2
R3656
4.7k
R3657
33k
C3654
33p/50
R3658
100
R3659
4.7k
R3660
33k
C3655
33p/50
C3675
1000p/50
C3676
NM
C3697
NM
C3698
NM
C3699
NM
C3661
NM
C3662
10u/50
D3661
UDZS5R1(B)
R3663
1k
C3667
NM
R3664
NM
MIC AMP


(FV)
R3624
0
R3623
0
L3623
NM
CN3601
CKS3376-A
11 FV
10 GNDV
9 V-7A
8 V+7A
7 GNDA
6 FL-L
5 GNDA
4 FV-R
3 GNDA
2 MICOUT
1 MICDET
E
CN4809
V+7_A
C3693
NM
C3694
NM
GNDV1
(FVL)
(M)
C3681
0.01u/50
C3682
0.022u/50
C3683
NM
C3684
NM
C3685
NM
C3686
NM
C3687
0.01u/50
C3688
0.022u/50
C3689
C3690
NM
C3691
NM
C3692
NM
V-7_A
GNDCH2
KN3601
VNF1084
1
V+5OPT
GNDA1
C3695
NM
(D)
1 V+5OPT
2 GNDOPT
3 RX7
4 GNDS
5 GNDS
6 V+5USB
7 D-
8 D+
9 GNDUSB
C 5/5
CN801
C3696
NM
KM200NA9
CN3602
GNDOPT
GNDUSB
R3632
0
R3645
0
(M)
R3661
100
C3656
10u/50
UDZS5R1(B)
D3653
R3662
100k
D3654
UDZS5R1(B)
(MIC)
V+7_A
C3663
0.01u/50
C3665
10u/50
C3664
0.01u/50
C3666
10u/50
V-7_A

(FV) ⇨ : Video Signal Route (Video)

(FL) ➡ : Audio Signal Route (Front L ch)

(FVL) ➡ : Audio Signal Route (Video L ch)

(M) ➡ : Audio Signal Route (Mic ch)

(D) ➡ : Audio Data Route

NOTE

1.RESISTORS

Unit :k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated:power :1/10W unless otherwise noted.
Tolerance :(J) ±5% unless otherwise noted.

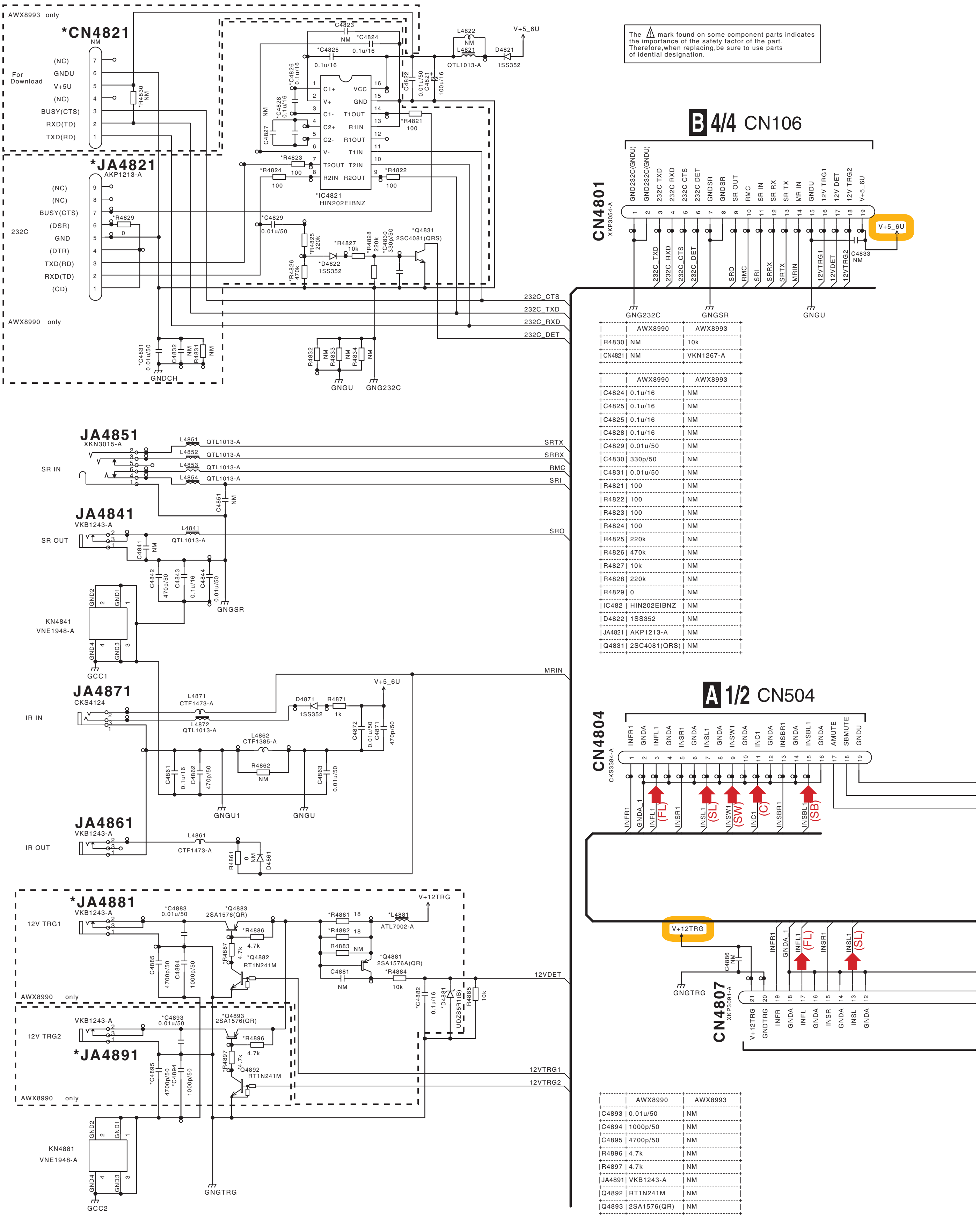
2,CAPACITORS

Unit :p-pF or μF or unless otherwise noted.
Ratings :Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage :50V except for electrolytic capacitors.

3,DIODES

Indicated in 1SS355

10.13 INTERFACE ASSY


*CN4821
AWX8993 only
For Download
*JA4821
AKP1213-A
232C
AWX8990 only
*IC4821
HIN202EIBNZ
JA4851
XKN3015-A
SR IN
JA4841
VKB1243-A
SR OUT
KN4841
VNE1948-A
JA4871
CKS4124
IR IN
JA4861
VKB1243-A
IR OUT
*JA4881
VKB1243-A
12V TRG1
*JA4891
12V TRG2
KN4881
VNE1948-A
B 4/4 CN106
CN4801
XKP3054-A
A 1/2 CN504
CN4804
CKS3384-A
CN4807
XKP3091-A
V+5_6U
V+12TRG
(FL)
(SL)
(SW)
(C)
(SB)
GNGTRG
GNG232C
GNGSR
GNGU
GNDCH
GNGU1
GCC1
GCC2

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore,when replacing,be sure to use parts of idential designation.

	AWX8990	AWX8993
R4830	NM	10k
CN4821	NM	VKN1267-A

	AWX8990	AWX8993
C4824	0.1u/16	NM
C4825	0.1u/16	NM
C4825	0.1u/16	NM
C4828	0.1u/16	NM
C4829	0.01u/50	NM
C4830	330p/50	NM
C4831	0.01u/50	NM
R4821	100	NM
R4822	100	NM
R4823	100	NM
R4824	100	NM
R4825	220k	NM
R4826	470k	NM
R4827	10k	NM
R4828	220k	NM
R4829	0	NM
IC482	HIN202EIBNZ	NM
D4822	1SS352	NM
JA4821	AKP1213-A	NM
Q4831	2SC4081(QRS)	NM

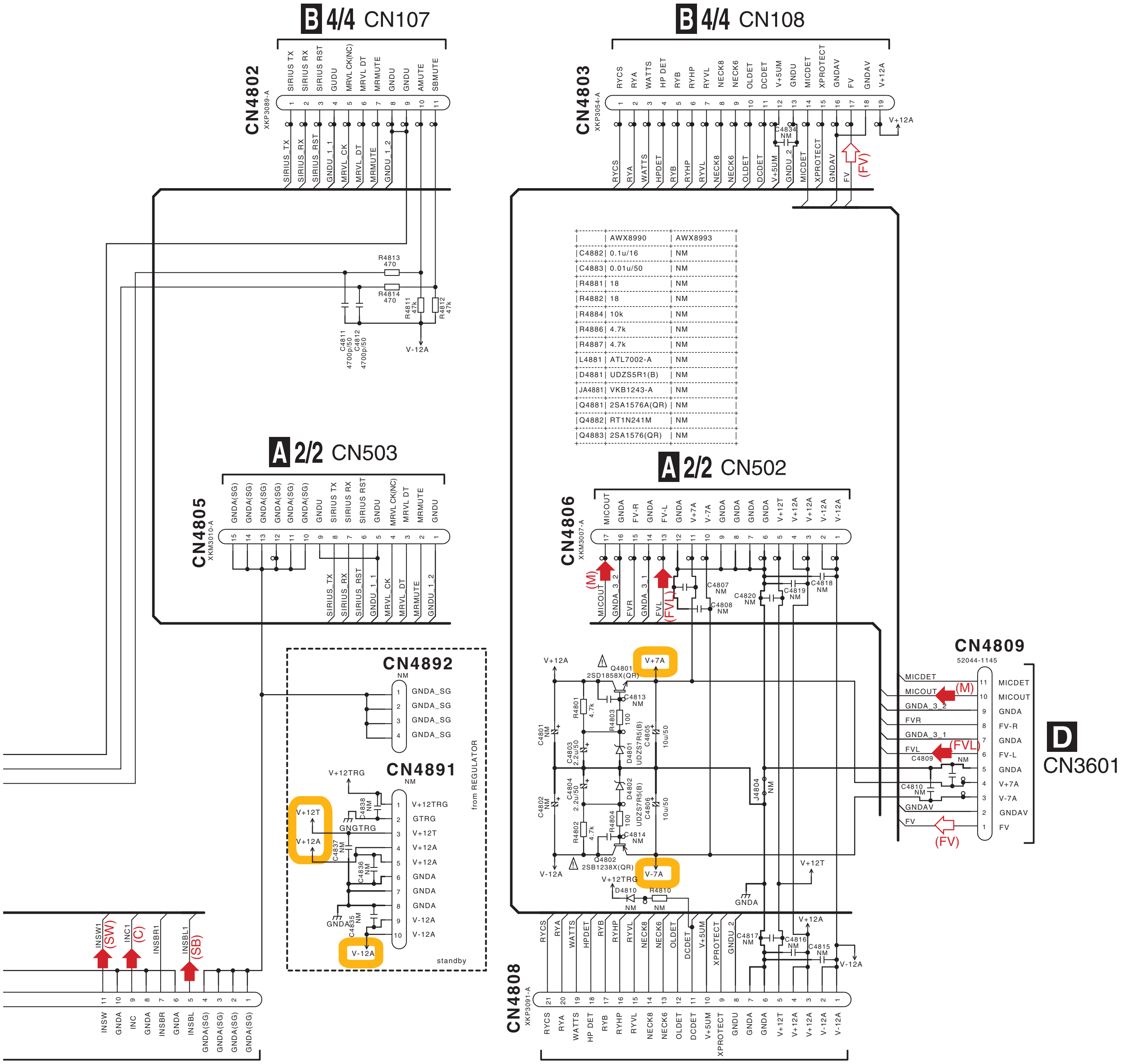
	AWX8990	AWX8993
C4893	0.01u/50	NM
C4894	1000p/50	NM
C4895	4700p/50	NM
R4896	4.7k	NM
R4897	4.7k	NM
JA4891	VKB1243-A	NM
Q4892	RT1N241M	NM
Q4893	2SA1576(QR)	NM

E INTERFACE ASSY (VSX-03TXH,VSX-9130TXH-K,VSX-01TXH : AWX8990) (VSX-1018AH-K : AWX8993)

NOTE
1.RESISTORS
Unit :k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance :(J) ±5% unless otherwise noted.

2.CAPACITORS
Unit: p-pF, or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.

3.DIODES
Indicated in 1ss355.

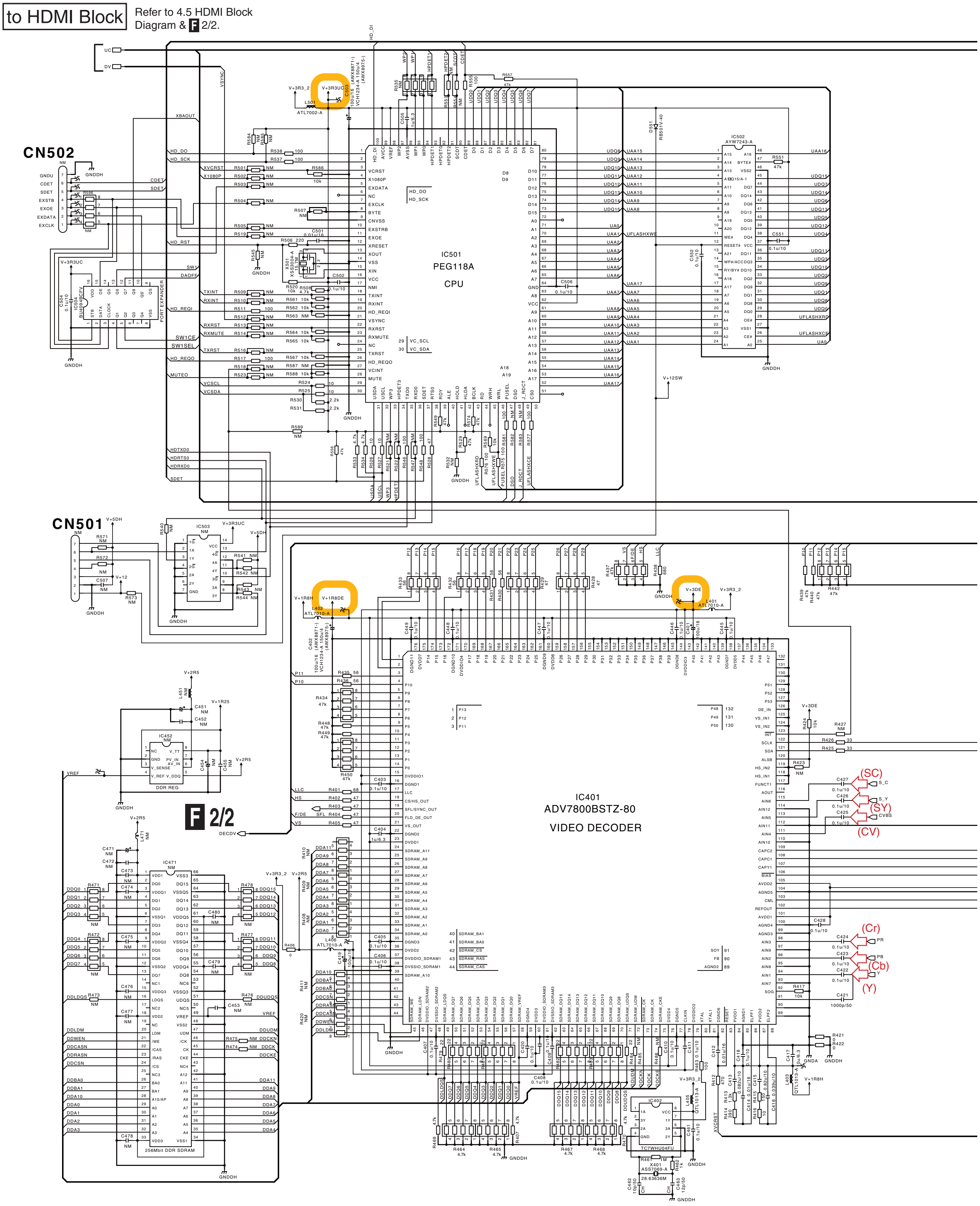

B 4/4 CN107
CN4802
XKP3089-A
SIRIUS TX
SIRIUS RX
SIRIUS RST
GUDU
MRVL CK(NC)
MRVL DT
MRMUTE
GNDU
GNDU
AMUTE
SBMUTE
SIRIUS_TX
SIRIUS_RX
SIRIUS_RST
GNDU_1_1
MRVL_CK
MRVL_DT
MRMUTE
GNDU_1_2
R4813 470
R4814 470
R4811 47k
R4812 47k
C4811 4700p/50
C4812 4700p/50
V-12A
B 4/4 CN108
CN4803
XKP3054-A
RYCS
RYA
WATTS
HP DET
RYB
RYHP
RYVL
NECK8
NECK6
OLDET
DCDET
V+5UM
GNDU
MICDET
XPROTECT
GNDAV
FV
GNDAV
V+12A
C4834 NM
HPDET
GNDU_2
(FV)
A 2/2 CN503
CN4805
XKM3010-A
GNDA(SG)
GNDU
SIRIUS TX
SIRIUS RX
SIRIUS RST
MRVL CK(NC)
MRVL DT
MRMUTE
A 2/2 CN502
CN4806
XKM3007-A
MICOUT
GNDA
FV-R
FV-L
V+7A
V-7A
V+12T
V+12A
V-12A
(M)
MICOUT
GNDA_3_2
FVR
GNDA_3_1
FVL
(FVL)
C4807 NM
C4808 NM
C4820 NM
C4819 NM
C4818 NM
CN4892
NM
GNDA_SG
CN4891
NM
V+12TRG
GTRG
V+12T
V+12A
GNDA
V-12A
GNGTRG
C4838 NM
C4837 NM
C4836 NM
C4835 NM
from REGULATOR
standby
V+12A
Q4801 2SD1858X(QR)
V+7A
C4813 NM
R4801 4.7k
R4803 100
C4801 NM
C4803 2.2u/50
D4801 UDZS7R5(B)
C4805 10u/50
C4804 2.2u/50
C4802 NM
D4802 UDZS7R5(B)
C4806 10u/50
R4802 4.7k
R4804 100
C4814 NM
Q4802 2SB1238X(QR)
V-12A
V-7A
V+12TRG
D4810 NM
R4810 NM
J4804 NM
V+12T
GNDA
CN4809
52044-1145
MICDET
MICOUT
GNDA_3_2
FVR
GNDA_3_1
FVL
C4809 NM
C4810 NM
GNDAV
FV
(M)
(FVL)
(FV)
GNDA
FV-R
FV-L
V+7A
V-7A
D CN3601
INSW1 (SW)
INC1 (C)
INSBR1
INSBL1 (SB)
INSW
GNDA
INC
INSBR
INSBL
GNDA(SG)
R 2/2 CN5802
CN4808
XKP3091-A
RYCS
RYA
WATTS
HPDET
RYB
RYHP
RYVL
NECK8
NECK6
OLDET
DCDET
V+5UM
XPROTECT
GNDU_2
GNDU
GNDA
V+12T
V+12A
V-12A
C4817 NM
C4816 NM
C4815 NM
R 2/2 CN5803

	AWX8990	AWX8993
C4882	0.1u/16	NM
C4883	0.01u/50	NM
R4881	18	NM
R4882	18	NM
R4884	10k	NM
R4886	4.7k	NM
R4887	4.7k	NM
L4881	ATL7002-A	NM
D4881	UDZS5R1(B)	NM
JA4881	VKB1243-A	NM
Q4881	2SA1576A(QR)	NM
Q4882	RT1N241M	NM
Q4883	2SA1576(QR)	NM

(FV) ⇨ : Video Signal Route (Video)	(C) ➡ : Audio Signal Route (Center ch)
(FL) ➡ : Audio Signal Route (Front L ch)	(SB) ➡ : Audio Signal Route (Surround Back L ch)
(FVL) ➡ : Audio Signal Route (Video L ch)	(SW) ➡ : Audio Signal Route (SubWoofer ch)
(SL) ➡ : Audio Signal Route (Surround L ch)	(M) ➡ : Audio Signal Route (Mic ch)

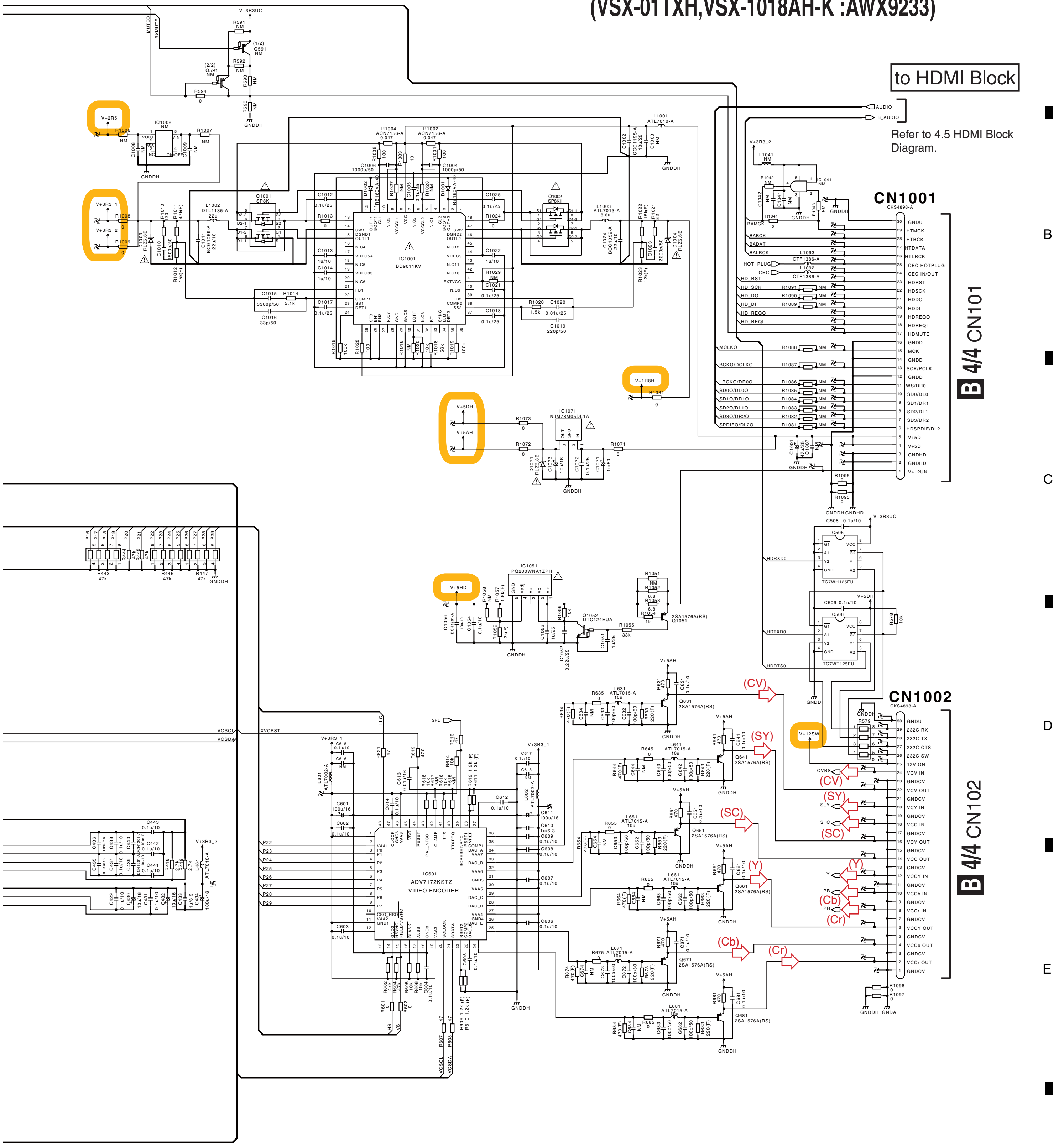
10.14 HDMI & DVC ASSY (1/2)

Refer to 4.5 HDMI Block Diagram & F 2/2.



to HDMI Block
UC
DV
CN502
CN501
IC501
PEG118A
CPU
IC502
AYW7243-A
IC503
IC504
BU2092FV
X501
L501
ATL7002-A
IC401
ADV7800BSTZ-80
VIDEO DECODER
IC452
DDR REG
IC471
256Mbit DDR SDRAM
IC402
TC7WHU04FU
X401
ASS7069-A
28.63636M
L401
ATL7010-A
L402
ATL7010-A
L406
ATL7010-A
F 2/2
DECDV
VREF
V+3R3UC
V+1R8DE
V+3DE
V+3R3_2
V+5DH
V+2R5
V+1R25
V+12
V+12SW
V+1R8H
GNDDH
GNDDA
(SC)
S_C
(SY)
S_Y
(CV)
CVBS
(Cr)
PR
(Cb)
PB
(Y)
Y

F 1/2 HDMI & DVC ASSY (VSX-03TXH,VSX-9130TXH-K :AWX9170) (VSX-01TXH,VSX-1018AH-K :AWX9233)



A
B
C
D
E
to HDMI Block
AUDIO
B_AUDIO
Refer to 4.5 HDMI Block Diagram.
CN1001
CKS4898-A
B 4/4 CN101
CN1002
CKS4898-A
B 4/4 CN102
IC1001
BD9011KV
IC1002
IC1071
NJM78M05DL1A
IC1051
PQ200WNA1ZPH
IC505
TC7WH125FU
IC506
TC7WT125FU
IC601
ADV7172KSTZ
VIDEO ENCODER
Q1001
SP8K1
Q1002
SP8K1
Q591
Q1052
DTC124EUA
Q1051
2SA1576A(RS)
Q631
Q641
Q651
Q661
Q671
Q681
2SA1576A(RS)
V+3R3UC
V+2R5
V+3R3_1
V+3R3_2
V+1R8H
V+5DH
V+5AH
V+12SW
GNDDH
MUTEO
RXMUTE
VCSCL
VCSDA
XVCRST
SFL
HDRXD0
HDTXD0
HDRTS0
GNDD
HTMCK
HTBCK
HTDATA
HTLRCK
CEC HOTPLUG
CEC IN/OUT
HDRST
HDSCK
HDDO
HDDI
HDREQO
HDREQI
HDMUTE
MCK
SCK/PCLK
WS/DR0
SD0/DL0
SD1/DR1
SD2/DL1
SD3/DR2
HDSPDIF/DL2
V+5D
V+12UN
232C RX
232C TX
232C CTS
232C SW
12V ON
VCV IN
GNDCV
VCV OUT
VCY IN
VCC IN
VCY OUT
VCC OUT
VCCY IN
VCCb IN
VCCr IN
VCCY OUT
VCCb OUT
VCCr OUT
(CV)
(SY)
(SC)
(Y)
(Cb)
(Cr)
CVBS
S_Y
S_C
Y
PB
PR

(Y)⇨ : Video Signal Route (Component Y ch)

(Cb)⇨ : Video Signal Route (Component Cb ch)

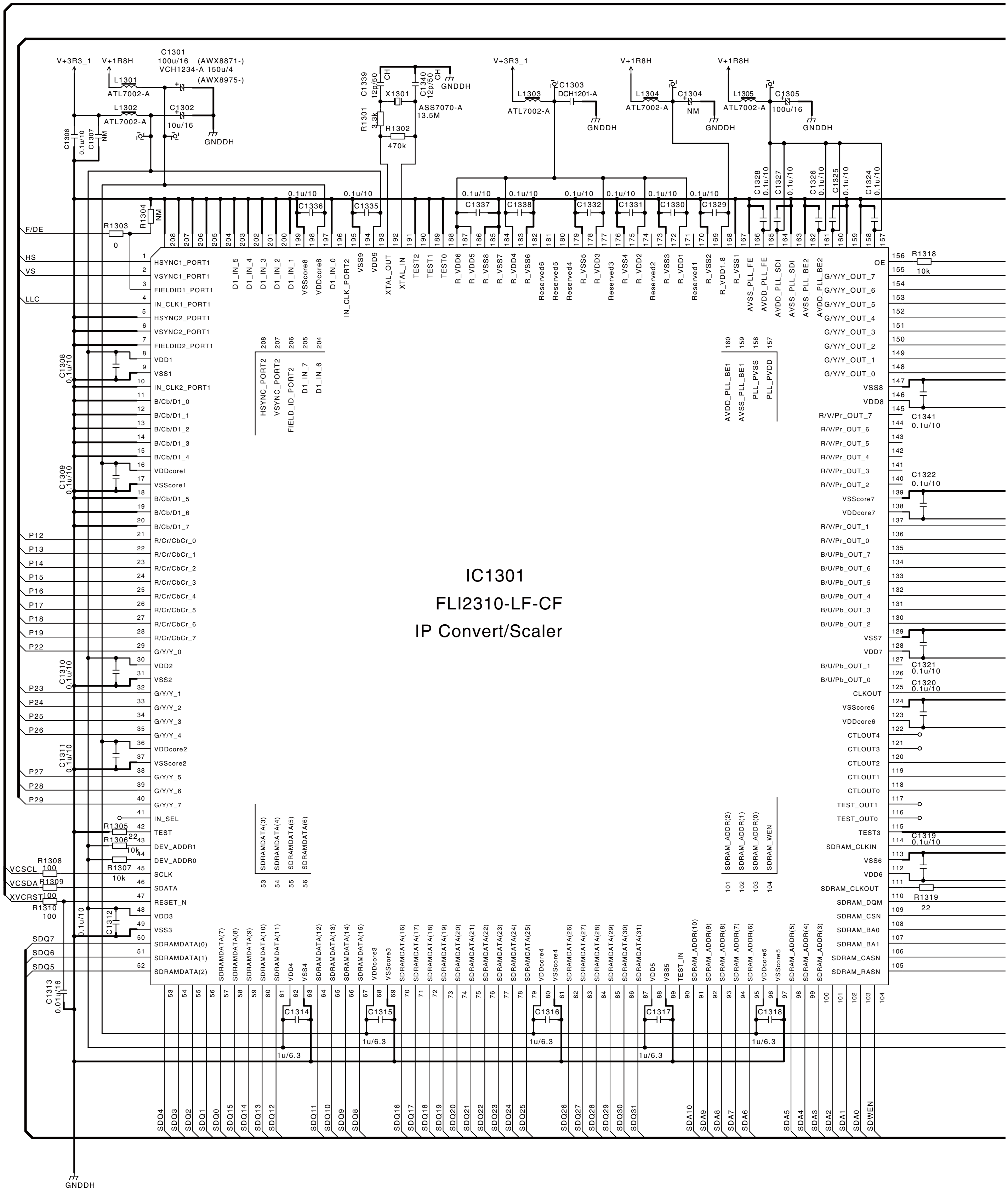
(Cr)⇨ : Video Signal Route (Component Cr ch)

(CV)⇨ : Video Signal Route (Component Video)

(SY)⇨ : S-Video Signal Route (Y ch)

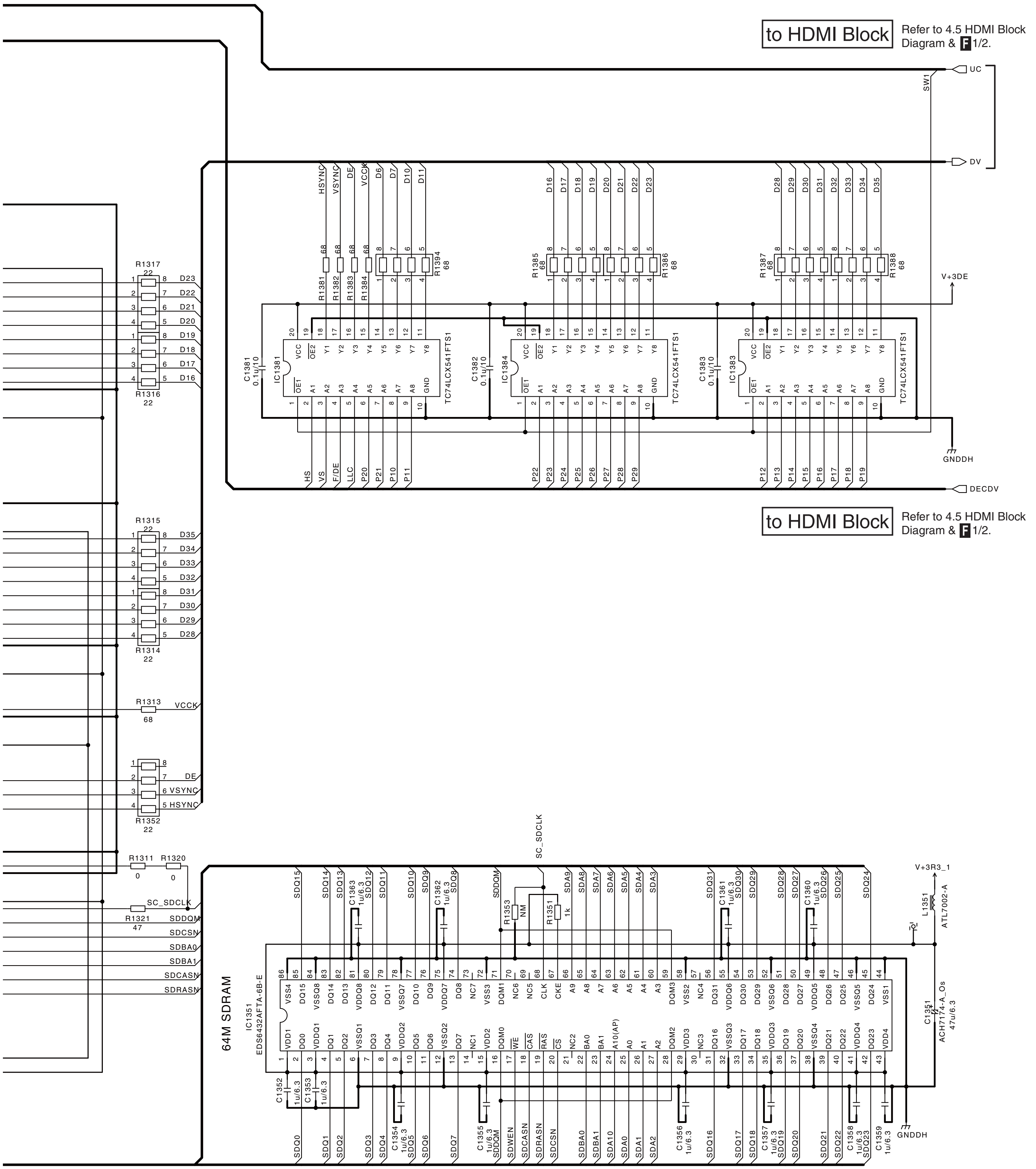
(SC)⇨ : S-Video Signal Route (C ch)

10.15 HDMI & DVC ASSY (2/2)


A
B
C
D
E
F
IC1301
FLI2310-LF-CF
IP Convert/Scaler
V+3R3_1
V+1R8H
C1301
100u/16 (AWX8871-)
VCH1234-A 150u/4
(AWX8975-)
L1301
ATL7002-A
L1302
ATL7002-A
C1302
10u/16
GNDDH
C1306
0.1u/10
C1307
NM
C1339
12p/50
CH
C1340
12p/50
CH
X1301
ASS7070-A
13.5M
R1301
3.3k
R1302
470k
L1303
ATL7002-A
C1303
DCH1201-A
L1304
ATL7002-A
C1304
NM
L1305
ATL7002-A
C1305
100u/16
C1328
C1327
C1326
C1325
C1324
0.1u/10
C1336
C1335
C1337
C1338
C1332
C1331
C1330
C1329
R1303
0
R1304
NM
F/DE
HS
VS
LLC
C1308
C1309
C1310
C1311
C1312
C1313
0.01u/16
P12
P13
P14
P15
P16
P17
P18
P19
P22
P23
P24
P25
P26
P27
P28
P29
R1305
22
R1306
10k
R1307
10k
R1308
100
R1309
100
R1310
100
VCSCL
VCSDA
XVCRST
SDQ7
SDQ6
SDQ5
HSYNC1_PORT1
VSYNC1_PORT1
FIELDID1_PORT1
IN_CLK1_PORT1
HSYNC2_PORT1
VSYNC2_PORT1
FIELDID2_PORT1
VDD1
VSS1
IN_CLK2_PORT1
B/Cb/D1_0
B/Cb/D1_1
B/Cb/D1_2
B/Cb/D1_3
B/Cb/D1_4
VDDcoreI
VSScore1
B/Cb/D1_5
B/Cb/D1_6
B/Cb/D1_7
R/Cr/CbCr_0
R/Cr/CbCr_1
R/Cr/CbCr_2
R/Cr/CbCr_3
R/Cr/CbCr_4
R/Cr/CbCr_5
R/Cr/CbCr_6
R/Cr/CbCr_7
G/Y/Y_0
VDD2
VSS2
G/Y/Y_1
G/Y/Y_2
G/Y/Y_3
G/Y/Y_4
VDDcore2
VSScore2
G/Y/Y_5
G/Y/Y_6
G/Y/Y_7
IN_SEL
TEST
DEV_ADDR1
DEV_ADDR0
SCLK
SDATA
RESET_N
VDD3
VSS3
SDRAMDATA(0)
SDRAMDATA(1)
SDRAMDATA(2)
D1_IN_5
D1_IN_4
D1_IN_3
D1_IN_2
D1_IN_1
VSScore8
VDDcore8
D1_IN_0
IN_CLK_PORT2
VSS9
VDD9
XTAL_OUT
XTAL_IN
TEST2
TEST1
TEST0
R_VDD6
R_VDD5
R_VSS8
R_VSS7
R_VDD4
R_VSS6
Reserved6
Reserved5
Reserved4
R_VSS5
R_VDD3
Reserved3
R_VSS4
R_VDD2
Reserved2
R_VSS3
R_VDD1
Reserved1
R_VSS2
R_VDD1.8
R_VSS1
AVSS_PLL_FE
AVDD_PLL_FE
AVDD_PLL_SDI
AVSS_PLL_SDI
AVSS_PLL_BE2
AVDD_PLL_BE2
HSYNC_PORT2
VSYNC_PORT2
FIELD_ID_PORT2
D1_IN_7
D1_IN_6
AVDD_PLL_BE1
AVSS_PLL_BE1
PLL_PVSS
PLL_PVDD
OE
G/Y/Y_OUT_7
G/Y/Y_OUT_6
G/Y/Y_OUT_5
G/Y/Y_OUT_4
G/Y/Y_OUT_3
G/Y/Y_OUT_2
G/Y/Y_OUT_1
G/Y/Y_OUT_0
VSS8
VDD8
R/V/Pr_OUT_7
R/V/Pr_OUT_6
R/V/Pr_OUT_5
R/V/Pr_OUT_4
R/V/Pr_OUT_3
R/V/Pr_OUT_2
VSScore7
VDDcore7
R/V/Pr_OUT_1
R/V/Pr_OUT_0
B/U/Pb_OUT_7
B/U/Pb_OUT_6
B/U/Pb_OUT_5
B/U/Pb_OUT_4
B/U/Pb_OUT_3
B/U/Pb_OUT_2
VSS7
VDD7
B/U/Pb_OUT_1
B/U/Pb_OUT_0
CLKOUT
VSScore6
VDDcore6
CTLOUT4
CTLOUT3
CTLOUT2
CTLOUT1
CTLOUT0
TEST_OUT1
TEST_OUT0
TEST3
SDRAM_CLKIN
VSS6
VDD6
SDRAM_CLKOUT
SDRAM_DQM
SDRAM_CSN
SDRAM_BA0
SDRAM_BA1
SDRAM_CASN
SDRAM_RASN
R1318
10k
C1341
0.1u/10
C1322
0.1u/10
C1321
0.1u/10
C1320
0.1u/10
C1319
0.1u/10
R1319
22
SDRAMDATA(3)
SDRAMDATA(4)
SDRAMDATA(5)
SDRAMDATA(6)
SDRAM_ADDR(2)
SDRAM_ADDR(1)
SDRAM_ADDR(0)
SDRAM_WEN
SDRAMDATA(7)
SDRAMDATA(8)
SDRAMDATA(9)
SDRAMDATA(10)
SDRAMDATA(11)
VDD4
VSS4
SDRAMDATA(12)
SDRAMDATA(13)
SDRAMDATA(14)
SDRAMDATA(15)
VDDcore3
VSScore3
SDRAMDATA(16)
SDRAMDATA(17)
SDRAMDATA(18)
SDRAMDATA(19)
SDRAMDATA(20)
SDRAMDATA(21)
SDRAMDATA(22)
SDRAMDATA(23)
SDRAMDATA(24)
SDRAMDATA(25)
VDDcore4
VSScore4
SDRAMDATA(26)
SDRAMDATA(27)
SDRAMDATA(28)
SDRAMDATA(29)
SDRAMDATA(30)
SDRAMDATA(31)
VDD5
VSS5
TEST_IN
SDRAM_ADDR(10)
SDRAM_ADDR(9)
SDRAM_ADDR(8)
SDRAM_ADDR(7)
SDRAM_ADDR(6)
VDDcore5
VSScore5
SDRAM_ADDR(5)
SDRAM_ADDR(4)
SDRAM_ADDR(3)
C1314
C1315
C1316
C1317
C1318
1u/6.3
SDQ4
SDQ3
SDQ2
SDQ1
SDQ0
SDQ15
SDQ14
SDQ13
SDQ12
SDQ11
SDQ10
SDQ9
SDQ8
SDQ16
SDQ17
SDQ18
SDQ19
SDQ20
SDQ21
SDQ22
SDQ23
SDQ24
SDQ25
SDQ26
SDQ27
SDQ28
SDQ29
SDQ30
SDQ31
SDA10
SDA9
SDA8
SDA7
SDA6
SDA5
SDA4
SDA3
SDA2
SDA1
SDA0
SDWEN
GNDDH

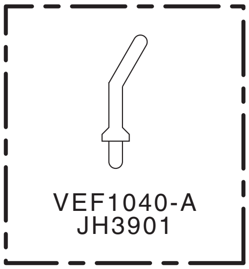
F 2/2

F 2/2 HDMI & DVC ASSY (VSX-03TXH,VSX-9130TXH-K :AWX9170) (VSX-01TXH,VSX-1018AH-K :AWX9233)

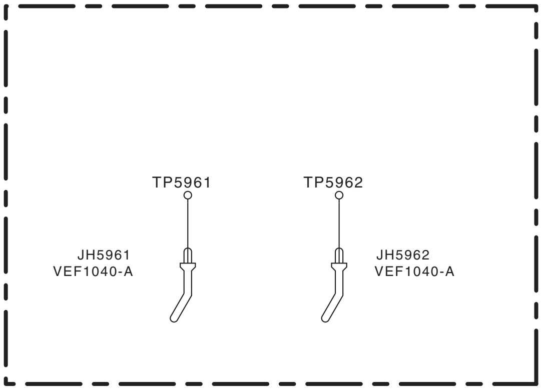

to HDMI Block
Refer to 4.5 HDMI Block Diagram & F 1/2.
UC
SW1
DV
V+3DE
GNDDH
DECDV
to HDMI Block
Refer to 4.5 HDMI Block Diagram & F 1/2.
HSYNC VSYNC DE VCCK D6 D7 D10 D11
D16 D17 D18 D19 D20 D21 D22 D23
D28 D29 D30 D31 D32 D33 D34 D35
R1381 68
R1382 68
R1383 68
R1384 68
R1394 68
R1385 68
R1386 68
R1387 68
R1388 68
IC1381
IC1384
IC1383
TC74LCX541FTS1
C1381 0.1u/10
C1382 0.1u/10
C1383 0.1u/10
VCC OE2 Y1 Y2 Y3 Y4 Y5 Y6 Y7 Y8
OE1 A1 A2 A3 A4 A5 A6 A7 A8 GND
HS VS F/DE LLC P20 P21 P10 P11
P22 P23 P24 P25 P26 P27 P28 P29
P12 P13 P14 P15 P16 P17 P18 P19
R1317 22
R1316 22
D23 D22 D21 D20 D19 D18 D17 D16
R1315 22
R1314 22
D35 D34 D33 D32 D31 D30 D29 D28
R1313 68
VCCK
R1352 22
DE VSYNC HSYNC
R1311 0
R1320 0
SC_SDCLK
R1321 47
SDDQM SDCSN SDBA0 SDBA1 SDCASN SDRASN
64M SDRAM
IC1351
EDS6432AFTA-6B-E
SC_SDCLK
V+3R3_1
L1351
ATL7002-A
C1351
ACH7174-A_Os
47u/6.3
R1353 NM
R1351 1k
C1363 1u/6.3
C1362 1u/6.3
C1361 1u/6.3
C1360 1u/6.3
C1352 1u/6.3
C1353 1u/6.3
C1354 1u/6.3
C1355 1u/6.3
C1356 1u/6.3
C1357 1u/6.3
C1358 1u/6.3
C1359 1u/6.3
VSS4 DQ15 VSSQ8 DQ14 DQ13 VDDQ8 DQ12 DQ11 VSSQ7 DQ10 DQ9 VDDQ7 DQ8 NC7 VSS3 DQM1 NC6 NC5 CLK CKE A9 A8 A7 A6 A5 A4 A3 DQM3 VSS2 NC4 DQ31 VDDQ6 DQ30 DQ29 VSSQ6 DQ28 DQ27 VDDQ5 DQ26 DQ25 VSSQ5 DQ24 VSS1
VDD1 DQ0 VDDQ1 DQ1 DQ2 VSSQ1 DQ3 DQ4 VDDQ2 DQ5 DQ6 VSSQ2 DQ7 NC1 VDD2 DQM0 WE CAS RAS CS NC2 BA0 BA1 A10(AP) A0 A1 A2 DQM2 VDD3 NC3 DQ16 VSSQ3 DQ17 DQ18 VDDQ3 DQ19 DQ20 VSSQ4 DQ21 DQ22 VDDQ4 DQ23 VDD4
SDQ15 SDQ14 SDQ13 SDQ12 SDQ11 SDQ10 SDQ9 SDQ8 SDQM SDA9 SDA8 SDA7 SDA6 SDA5 SDA4 SDA3 SDQ31 SDQ30 SDQ29 SDQ28 SDQ27 SDQ26 SDQ25 SDQ24
SDQ0 SDQ1 SDQ2 SDQ3 SDQ4 SDQ5 SDQ6 SDQ7 SDDQM SDWEN SDCASN SDRASN SDCSN SDBA0 SDBA1 SDA10 SDA0 SDA1 SDA2 SDQ16 SDQ17 SDQ18 SDQ19 SDQ20 SDQ21 SDQ22 SDQ23
GNDDH

10.16 BINDER, BIND L FRONT, BIND L BACK, BIND R FRONT and BIND R BACK ASSYS

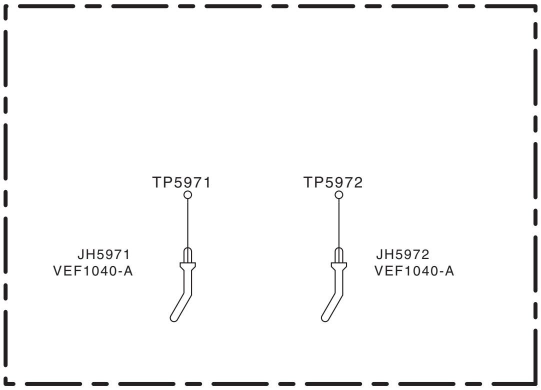
H **BINDER ASSY (AWX9120)**


VEF1040-A
JH3901

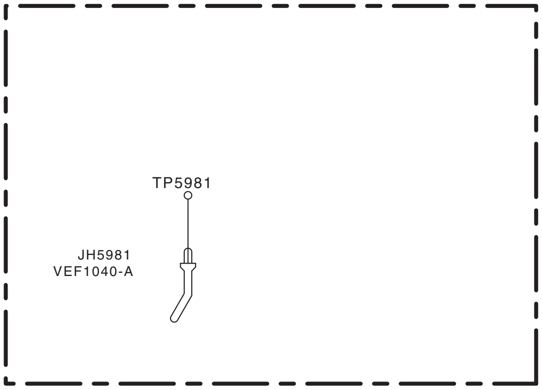
I **BIND_L_FRONT ASSY (AWX9217)**


TP5961
TP5962
JH5961
VEF1040-A
JH5962
VEF1040-A

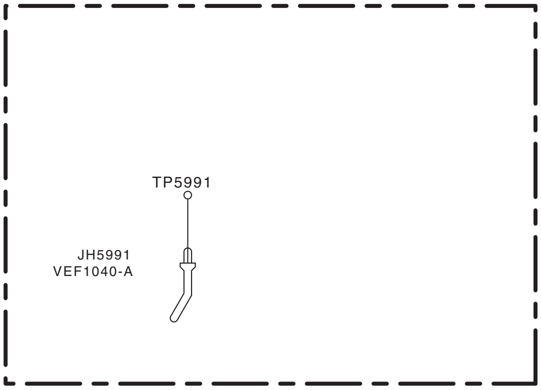
J **BIND_L_BACK ASSY (AWX9218)**


TP5971
TP5972
JH5971
VEF1040-A
JH5972
VEF1040-A

K **BIND_R_FRONT ASSY (AWX9219)**

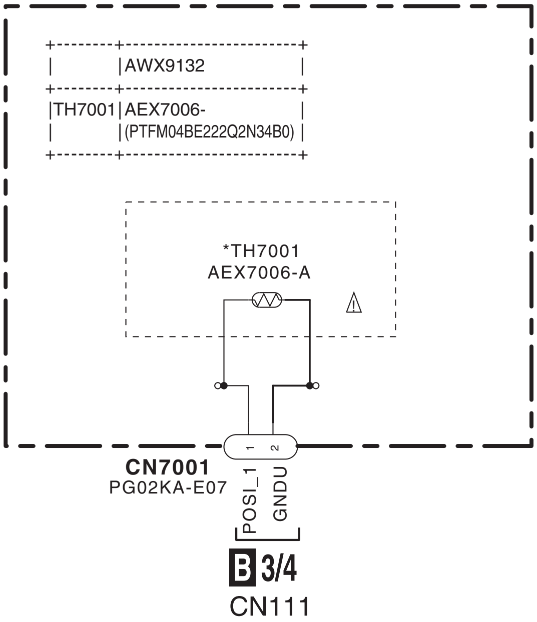

TP5981
JH5981
VEF1040-A

L **BIND_R_BACK ASSY (AWX9220)**

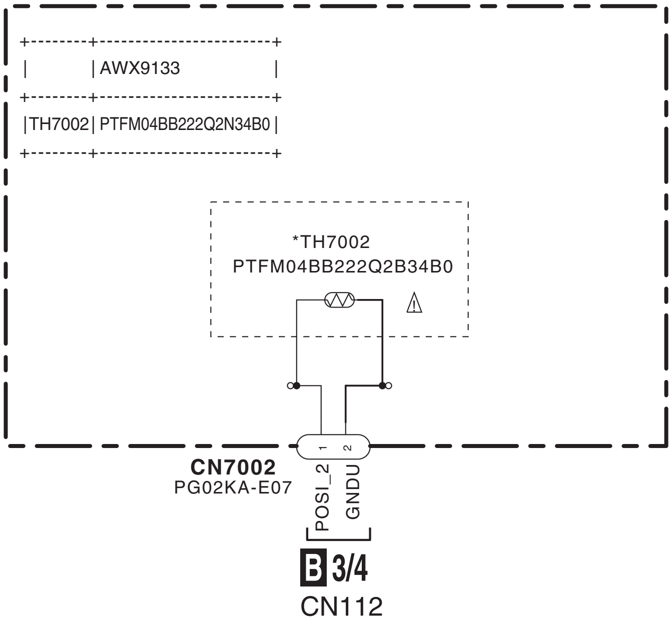

TP5991
JH5991
VEF1040-A

10.17 POSI1, POSI2 and POSI3 ASSYS

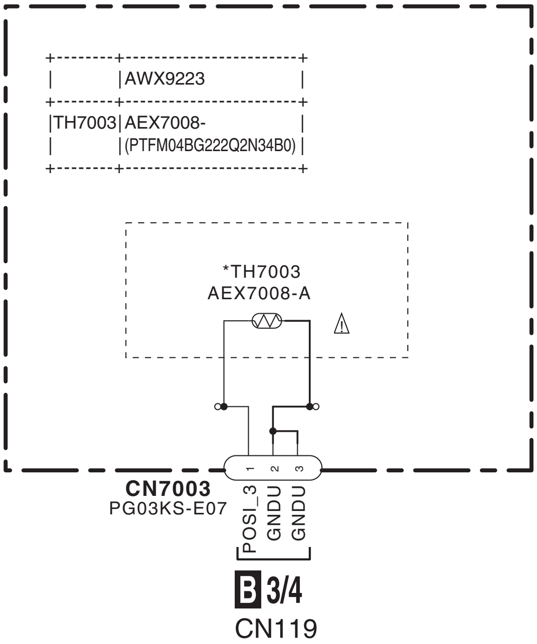
W POSI 1 ASSY (AWX9132)


AWX9132
TH7001
AEX7006-
(PTFM04BE222Q2N34B0)
*TH7001
AEX7006-A
⚠
1
2
CN7001
PG02KA-E07
POSI_1
GNDU
B 3/4
CN111

X POSI 2 ASSY (AWX9133)


AWX9133
TH7002
PTFM04BB222Q2N34B0
*TH7002
PTFM04BB222Q2B34B0
⚠
1
2
CN7002
PG02KA-E07
POSI_2
GNDU
B 3/4
CN112

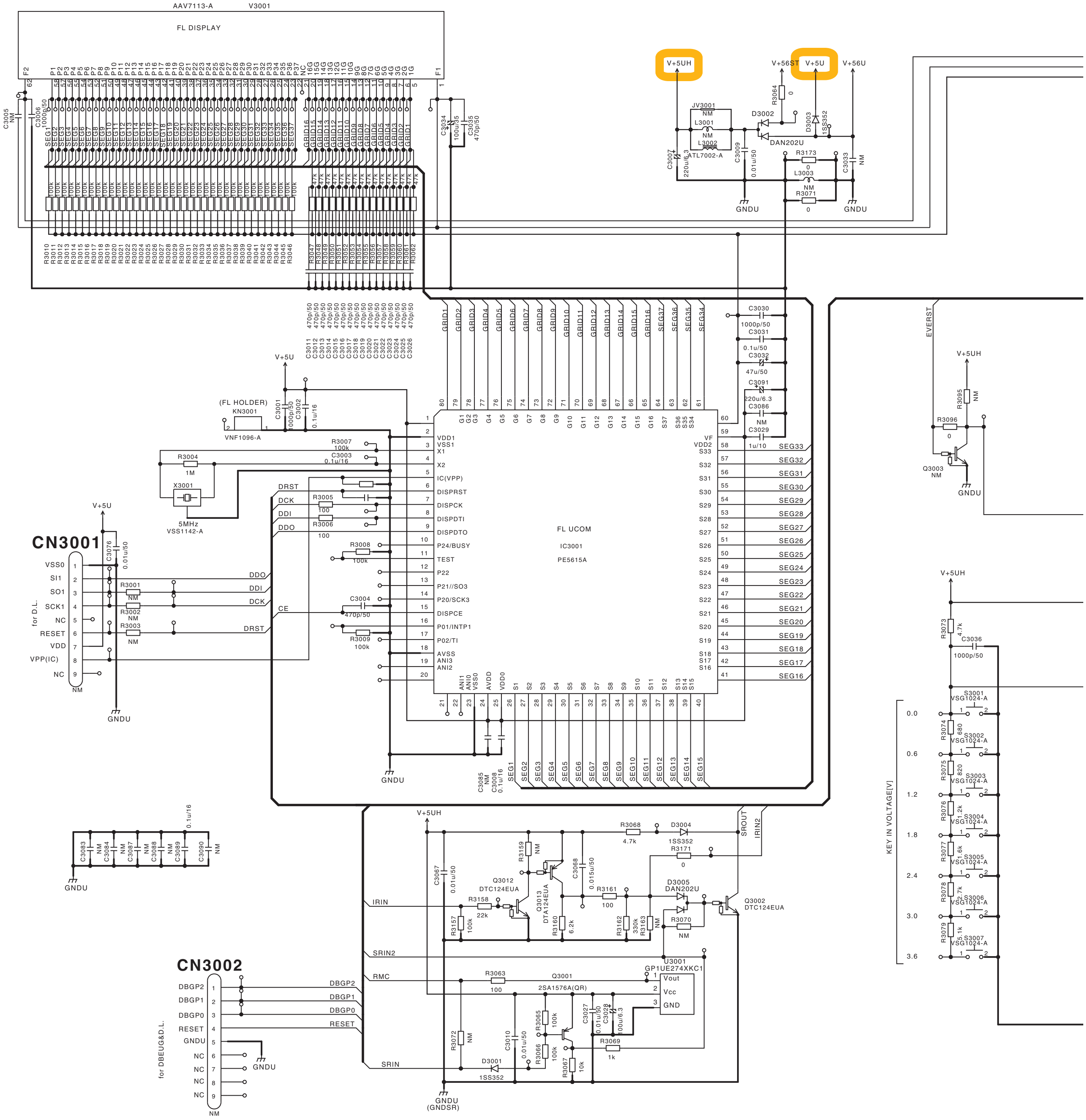
Y POSI 3 ASSY (AWX9223)


AWX9223
TH7003
AEX7008-
(PTFM04BG222Q2N34B0)
*TH7003
AEX7008-A
⚠
1
2
3
CN7003
PG03KS-E07
POSI_3
GNDU
GNDU
B 3/4
CN119

The ⚠mark found on some component parts indicates the importance of the safety factor of the part. Therefore,when replacing ,be,sure to use parts of identical desigantion.

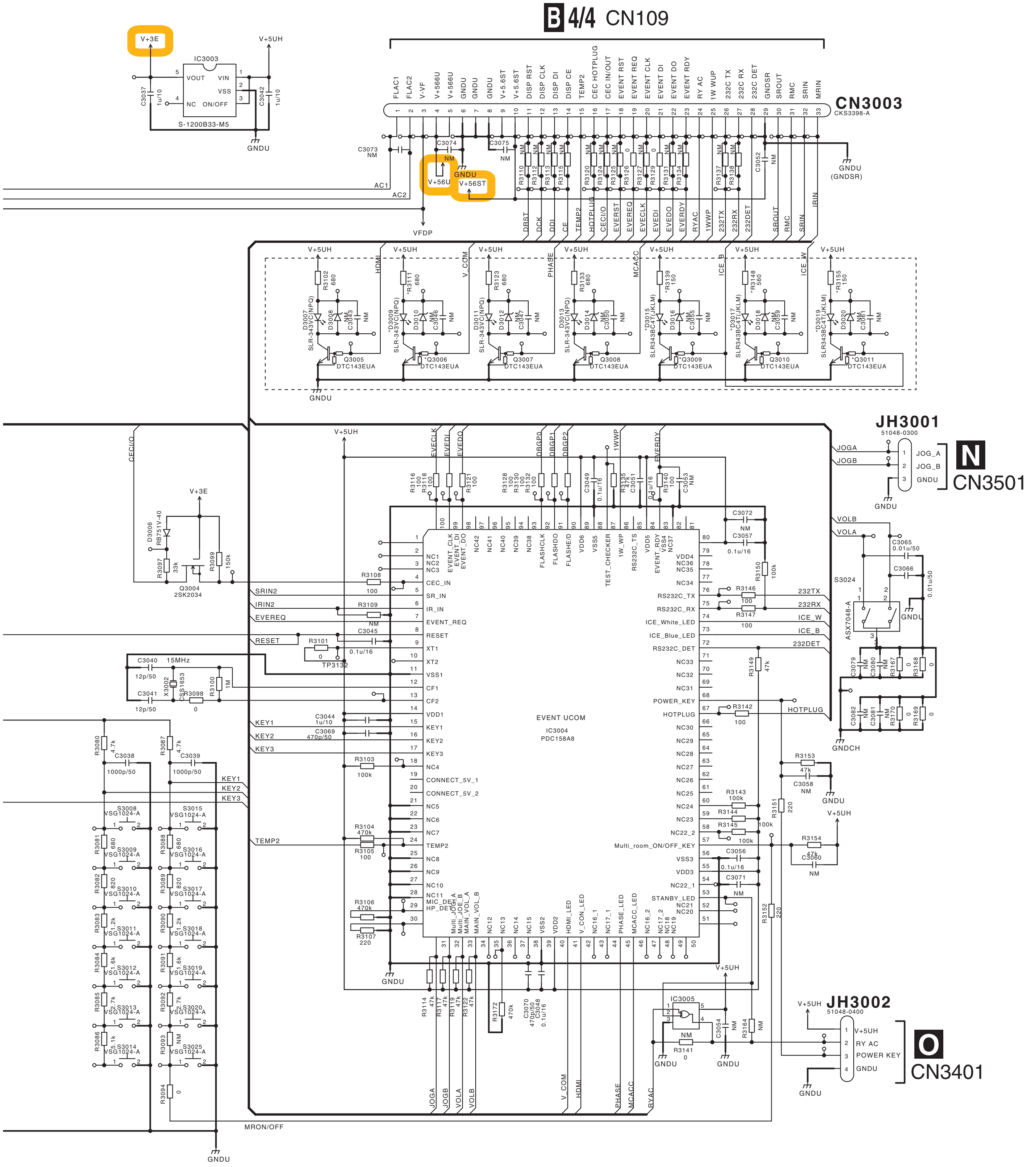
10.18 DISPLAY ASSY

	awx9117	awx9216
R3111	680	680
R3139	150	NM
R3148	560	150
R3155	150	NM
D3009	SLR-343VC(NPQ)	SLR-343VC(NPQ)
D3015	SLR343BC4T(JKLM)	NM
D3017	SLR343WBCT(MNPQ)	SLR343BC4T(JKLM)
D3019	SLR343BC4T(JKLM)	NM
Q3006	DTC143EUA	DTC143EUA
Q3009	DTC143EUA	NM
Q3011	DTC143EUA	NM

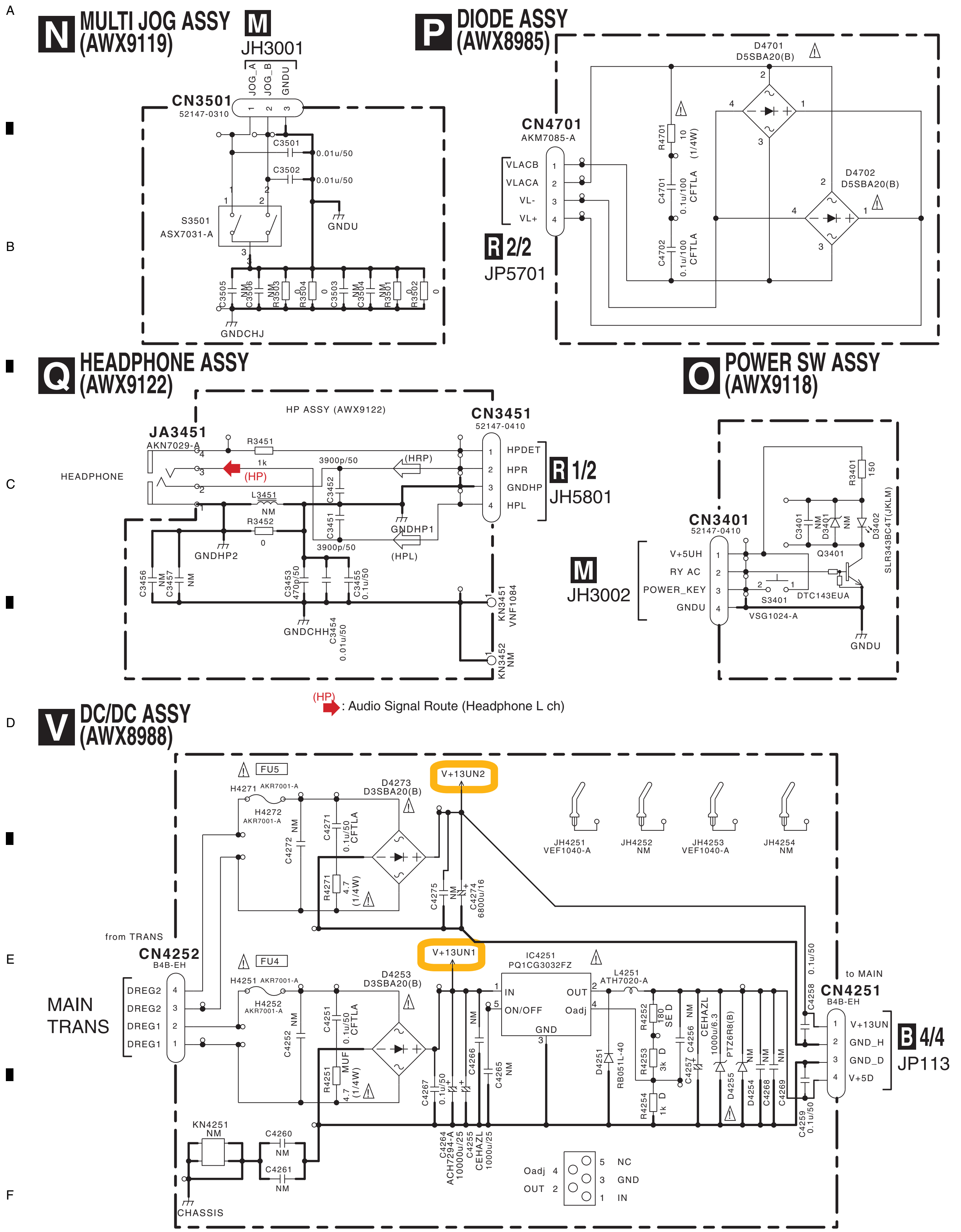


AAV7113-A
V3001
FL DISPLAY
V+5UH
V+56ST
V+5U
V+56U
JV3001 NM
L3001 NM
L3002 ATL7002-A
D3002
DAN202U
D3003 1SS352
R3064 0
R3173 0
L3003 NM
R3071 0
C3007 220u/6.3
C3009 0.01u/50
C3033 NM
GNDU
C3034 100u/35
C3035 470p/50
C3005 NM
C3006 1000p/50
(FL HOLDER) KN3001
VNF1096-A
C3001 1000p/50
C3002 0.1u/16
R3007 100k
C3003 0.1u/16
R3004 1M
X3001
5MHz VSS1142-A
DRST
DCK
DDI
DDO
R3005 100
R3006 100
R3008 100k
C3004 470p/50
R3009 100k
FL UCOM
IC3001
PE5615A
C3030 1000p/50
C3031 0.1u/50
C3032 47u/50
C3091 220u/6.3
C3086 NM
C3029 1u/10
EVERST
R3095 NM
R3096 0
Q3003 NM
CN3001
VSS0
SI1
SO1
SCK1
NC
RESET
VDD
VPP(IC)
NC
for D.L.
C3076 0.01u/50
R3001 NM
R3002 NM
R3003 NM
CE
C3085 NM
C3008 0.1u/16
C3083 NM
C3084 NM
C3087 NM
C3088 NM
C3089 NM
C3090 NM
0.1u/16
V+5UH
R3073 4.7k
C3036 1000p/50
S3001 VSG1024-A
R3074 680
S3002 VSG1024-A
R3075 820
S3003 VSG1024-A
R3076 1.2k
S3004 VSG1024-A
R3077 1.6k
S3005 VSG1024-A
R3078 2.7k
S3006 VSG1024-A
R3079 5.1k
S3007 VSG1024-A
KEY IN VOLTAGE[V]
0.0
0.6
1.2
1.8
2.4
3.0
3.6
R3068 4.7k
D3004 1SS352
R3171 0
SROUT
IRIN2
R3159 NM
Q3012 DTC124EUA
Q3013 DTA124EUA
C3068 0.015u/50
C3067 0.01u/50
R3158 22k
R3157 100k
R3160 6.2k
R3161 100
R3162 330k
R3163 NM
D3005 DAN202U
R3070 NM
Q3002 DTC124EUA
IRIN
SRIN2
RMC
R3063 100
Q3001 2SA1576A(QR)
U3001 GP1UE274XKC1
Vout
Vcc
GND
R3065 100k
R3066 100k
R3067 10k
C3027 0.01u/50
C3028 100u/6.3
R3069 1k
R3072 NM
C3010 0.01u/50
D3001 1SS352
SRIN
GNDU (GNDSR)
CN3002
DBGP2
DBGP1
DBGP0
RESET
GNDU
NC
NC
NC
NC
NM
for DBEUG&D.L.

M DISPLAY ASSY (VSX-03TXH,VSX-01TXH : AWX9117) (VSX-9130TXH-K, VSX-1018AH-K : AWX9216)

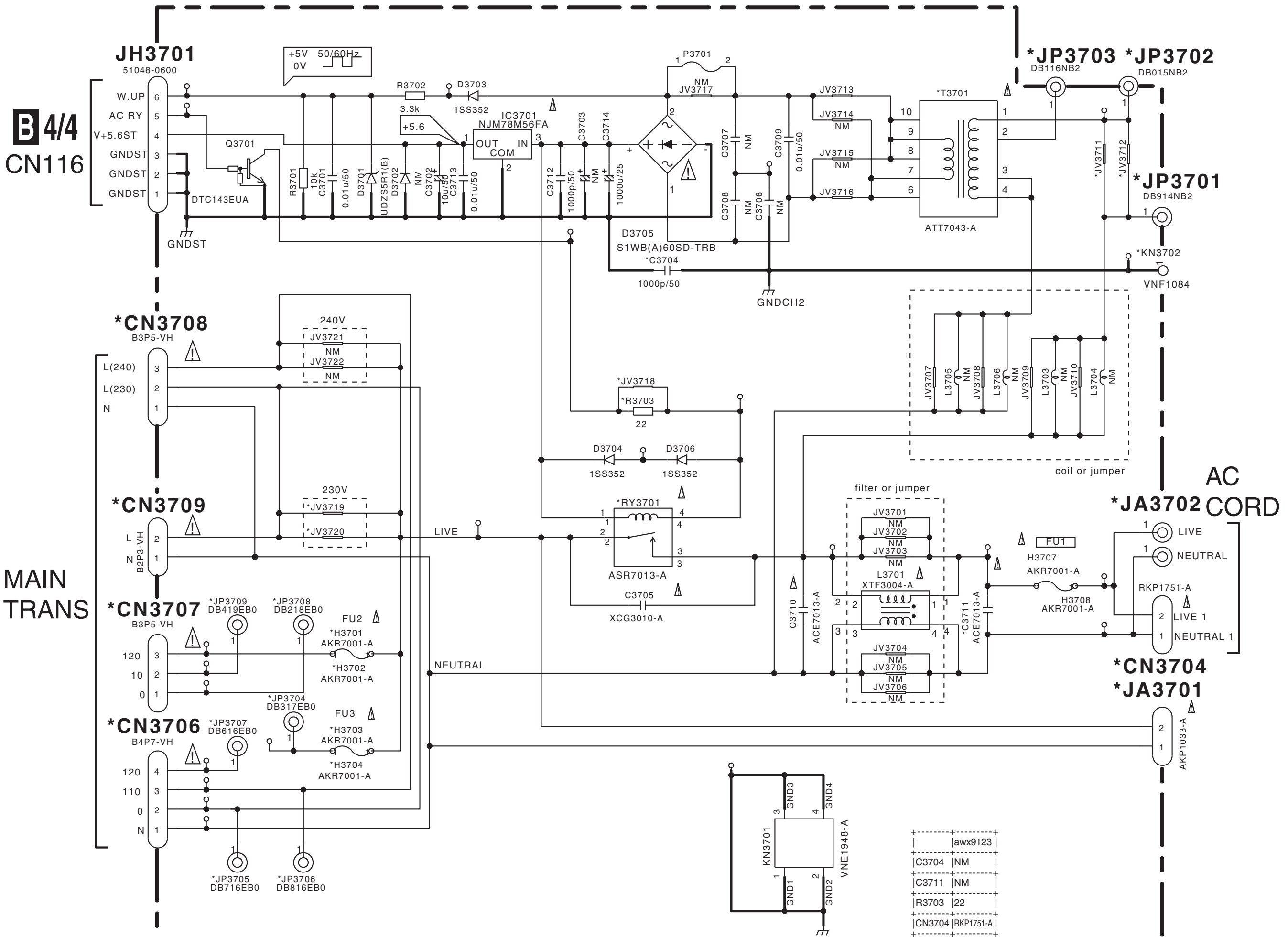

B 4/4 CN109
CN3003
CKS3398-A
FLAC1
FLAC2
V-VF
V+56U
V+56U
GNDU
GNDU
GNDU
V+5.6ST
V+5.6ST
DISP RST
DISP CLK
DISP DI
DISP CE
TEMP2
CEC HOTPLUG
CEC IN/OUT
EVENT RST
EVENT REQ
EVENT CLK
EVENT DI
EVENT DO
EVENT RDY
RY AC
1W WUP
232C TX
232C RX
232C DET
GNDSR
SROUT
RMC
SRIN
MRIN
GNDU (GNDSR)
V+3E
V+5UH
IC3003
S-1200B33-M5
VOUT
VIN
VSS
NC
ON/OFF
C3037 1u/10
C3042 1u/10
GNDU
C3073 NM
C3074 NM
C3075 NM
V+56U
V+56ST
AC1
AC2
VFDP
DRST
DCK
DDI
CE
TEMP2
HOTPLUG
CECI/O
EVERST
EVEREQ
EVECLK
EVEDI
EVEDO
EVERDY
RYAC
1WWP
232TX
232RX
232DET
SROUT
RMC
SRIN
IRIN
HDMI
V_COM
PHASE
MCACC
ICE_B
ICE_W
D3007 SLR-343VC(NPQ)
D3009 SLR-343VC(NPQ)
D3011 SLR-343VC(NPQ)
D3013 SLR-343VC(NPQ)
D3015 SLR343BC4T(JKLM)
D3017 SLR343BC4T(JKLM)
D3019 SLR343BC4T(JKLM)
Q3005 DTC143EUA
Q3006 DTC143EUA
Q3007 DTC143EUA
Q3008 DTC143EUA
Q3009 DTC143EUA
Q3010 DTC143EUA
Q3011 DTC143EUA
R3102 680
R3111 680
R3123 680
R3133 680
R3139 150
R3148 560
R3155 150
JH3001
51048-0300
JOGA
JOGB
JOG_A
JOG_B
GNDU
N CN3501
CECI/O
V+3E
D3006 RB751V-40
R3097 33k
R3099 150k
Q3004 2SK2034
SRIN2
IRIN2
EVEREQ
RESET
C3040 15MHz 12p/50
X3002
C3041 12p/50
R3100 1M
R3098 0
TP3132
R3101 0
C3045 0.1u/16
KEY1
KEY2
KEY3
C3044 1u/10
C3069 470p/50
TEMP2
EVENT UCOM
IC3004
PDC158A8
CEC_IN
SR_IN
IR_IN
EVENT_REQ
RESET
XT1
XT2
VSS1
CF1
CF2
VDD1
KEY1
KEY2
KEY3
NC4
CONNECT_5V_1
CONNECT_5V_2
TEMP2
RS232C_TX
RS232C_RX
ICE_White_LED
ICE_Blue_LED
RS232C_DET
POWER_KEY
HOTPLUG
Multi_room_ON/OFF_KEY
STANBY_LED
TEST_CHECKER
1W_WP
FLASHCLK
FLASHDO
FLASHD/O
HDMI_LED
V_CON_LED
PHASE_LED
MCACC_LED
EVENT_RDY
232TX
232RX
ICE_W
ICE_B
232DET
HOTPLUG
VOLB
VOLA
S3024
ASX7048-A
C3065 0.01u/50
C3066 0.01u/50
GNDCH
R3153 47k
C3058 NM
R3154 47k
C3060 NM
R3146 100
R3147 100
R3142 100
R3150 100k
R3149 47k
R3151 220
R3152 220
C3072 NM
C3057 0.1u/16
C3056 0.1u/16
C3071 NM
R3080 4.7k
R3087 4.7k
C3038 1000p/50
C3039 1000p/50
S3008 VSG1024-A
S3015 VSG1024-A
S3009 VSG1024-A
S3016 VSG1024-A
S3010 VSG1024-A
S3017 VSG1024-A
S3011 VSG1024-A
S3018 VSG1024-A
S3012 VSG1024-A
S3019 VSG1024-A
S3013 VSG1024-A
S3020 VSG1024-A
S3014 VSG1024-A
S3025 VSG1024-A
R3081 680
R3082 820
R3083 1.2k
R3084 1.6k
R3085 2.7k
R3086 5.1k
R3088 680
R3089 820
R3090 1.2k
R3091 1.6k
R3092 2.7k
R3093 NM
R3094 0
MRON/OFF
GNDU
R3114 47k
R3117 47k
R3119 47k
R3122 47k
R3172 470k
C3070 470p/50
C3048 0.1u/16
JOGA
JOGB
VOLA
VOLB
V_COM
HDMI
PHASE
MCACC
RYAC
IC3005
R3141 0
C3054 NM
R3164 NM
V+5UH
JH3002
51048-0400
V+5UH
RY AC
POWER KEY
GNDU
O CN3401
A
B
C
D
E
F

10.19 MULTI JOG, POWER SW, DIODE, HEADPHONE, PRIMARY and DC/DC ASSYS


A
B
C
D
E
F
N MULTI JOG ASSY (AWX9119)
M JH3001
JOG_A
JOG_B
GNDU
CN3501
52147-0310
C3501 0.01u/50
C3502 0.01u/50
S3501
ASX7031-A
GNDU
C3505 C3506 NM R3503 NM R3504 0 C3503 C3504 NM R3501 NM R3502 0
GNDCHJ
P DIODE ASSY (AWX8985)
D4701
D5SBA20(B)
CN4701
AKM7085-A
VLACB
VLACA
VL-
VL+
R 2/2
JP5701
R4701 10 (1/4W)
C4701 0.1u/100 CFTLA
C4702 0.1u/100 CFTLA
D4702
D5SBA20(B)
Q HEADPHONE ASSY (AWX9122)
HP ASSY (AWX9122)
JA3451
AKN7029-A
HEADPHONE
R3451 1k
(HP)
3900p/50
(HRP)
CN3451
52147-0410
HPDET
HPR
GNDHP
HPL
R 1/2
JH5801
L3451 NM
R3452 0
C3452
C3451
GNDHP1
3900p/50
(HPL)
GNDHP2
C3456 NM C3457 NM
C3453 470p/50
C3455 0.1u/50
GNDCHH
C3454 0.01u/50
KN3451 VNF1084
KN3452 NM
O POWER SW ASSY (AWX9118)
CN3401
52147-0410
M JH3002
V+5UH
RY AC
POWER_KEY
GNDU
R3401 150
C3401 NM D3401 NM
D3402 SLR343BC4T(JKLM)
Q3401
S3401
DTC143EUA
VSG1024-A
GNDU
(HP) : Audio Signal Route (Headphone L ch)
V DC/DC ASSY (AWX8988)
FU5
H4271 AKR7001-A
H4272 AKR7001-A
D4273 D3SBA20(B)
V+13UN2
C4272 NM
C4271 0.1u/50 CFTLA
R4271 4.7 (1/4W)
C4275 NM
C4274 6800u/16
JH4251 VEF1040-A
JH4252 NM
JH4253 VEF1040-A
JH4254 NM
from TRANS
CN4252
B4B-EH
MAIN TRANS
DREG2
DREG2
DREG1
DREG1
FU4
H4251 AKR7001-A
H4252 AKR7001-A
D4253 D3SBA20(B)
V+13UN1
IC4251 PQ1CG3032FZ
IN OUT
ON/OFF Oadj
GND
L4251 ATH7020-A
C4252 NM
C4251 0.1u/50 CFTLA
R4251 MUF 4.7 (1/4W)
C4267 0.1u/50
C4266 NM
C4265 NM
D4251 RB051L-40
R4252 180 SE D
R4253 3k D
R4254 1k D
C4256 NM
C4257 CEHAZL 1000u/6.3
D4255 PTZ6R8(B)
D4254 NM
C4268 NM
C4269 NM
C4258 0.1u/50
C4259 0.1u/50
to MAIN
CN4251
B4B-EH
V+13UN
GND_H
GND_D
V+5D
B 4/4
JP113
KN4251 NM
C4260 NM
C4261 NM
CHASSIS
C4264 ACH7294-A 10000u/25
C4255 CEHAZL 1000u/25
Oadj 4
OUT 2
5 NC
3 GND
1 IN

N O P Q V

T PRIMARY ASSY (AWX9123)


JH3701
51048-0600
B 4/4
CN116
W.UP 6
AC RY 5
V+5.6ST 4
GNDST 3
GNDST 2
GNDST 1
GNDST
Q3701
DTC143EUA
+5V 50/60Hz
0V
R3702
3.3k
D3703
1SS352
+5.6
IC3701
NJM78M56FA
OUT IN
COM
R3701
10k
C3701
0.01u/50
D3701
UDZS5R1(B)
D3702
NM
C3702
10u/50
C3713
0.01u/50
C3712
1000p/50
C3703
NM
C3714
1000u/25
P3701
NM
JV3717
D3705
S1WB(A)60SD-TRB
*C3704
1000p/50
C3707
NM
C3708
NM
C3706
NM
C3709
0.01u/50
GNDCH2
JV3713
JV3714
NM
JV3715
NM
JV3716
*T3701
ATT7043-A
*JP3703
DB116NB2
*JP3702
DB015NB2
*JV3711
*JV3712
*JP3701
DB914NB2
*KN3702
VNF1084
*CN3708
B3P5-VH
L(240)
L(230)
N
240V
JV3721
NM
JV3722
NM
*JV3718
*R3703
22
D3704
1SS352
D3706
1SS352
JV3707
L3705
NM
JV3708
L3706
NM
JV3709
L3703
NM
JV3710
L3704
NM
coil or jumper
*CN3709
B2P3-VH
L
N
230V
*JV3719
*JV3720
LIVE
*RY3701
ASR7013-A
C3705
XCG3010-A
filter or jumper
JV3701
NM
JV3702
NM
JV3703
NM
L3701
XTF3004-A
JV3704
NM
JV3705
NM
JV3706
NM
C3710
ACE7013-A
*C3711
ACE7013-A
FU1
H3707
AKR7001-A
H3708
AKR7001-A
AC CORD
*JA3702
LIVE
NEUTRAL
RKP1751-A
LIVE 1
NEUTRAL 1
*CN3704
*JA3701
AKP1033-A
MAIN TRANS
*CN3707
B3P5-VH
120
10
0
*JP3709
DB419EB0
*JP3708
DB218EB0
FU2
*H3701
AKR7001-A
*H3702
AKR7001-A
NEUTRAL
*JP3704
DB317EB0
FU3
*CN3706
B4P7-VH
120
110
0
N
*JP3707
DB616EB0
*H3703
AKR7001-A
*H3704
AKR7001-A
*JP3705
DB716EB0
*JP3706
DB816EB0
KN3701
VNE1948-A
GND3
GND4
GND1
GND2
GNDCH1

caution
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE WITH SAME TYPE AND RATINGS OF FUSE.

	awx9123
C3704	NM
C3711	NM
R3703	22
CN3704	RKP1751-A
CN3706	NM
CN3707	NM
CN3708	NM
CN3709	B2P3-VH
H3701	NM
H3702	NM
H3703	NM
H3704	NM
JA3701	NM
JA3702	NM
JP3701	NM
JP3702	NM
JP3703	NM
JP3704	NM
JP3705	NM
JP3706	NM
JP3707	NM
JP3708	NM
JP3709	NM
JV3711	Yes
JV3712	Yes
JV3718	NM
JV3719	Yes
JV3720	Yes
KN3702	NM
RY3701	ASR7022-A
S3702	NM
T3701	ATT7043-A

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore,when replacing ,be,sure to use parts of identical desigantion.

NOTE

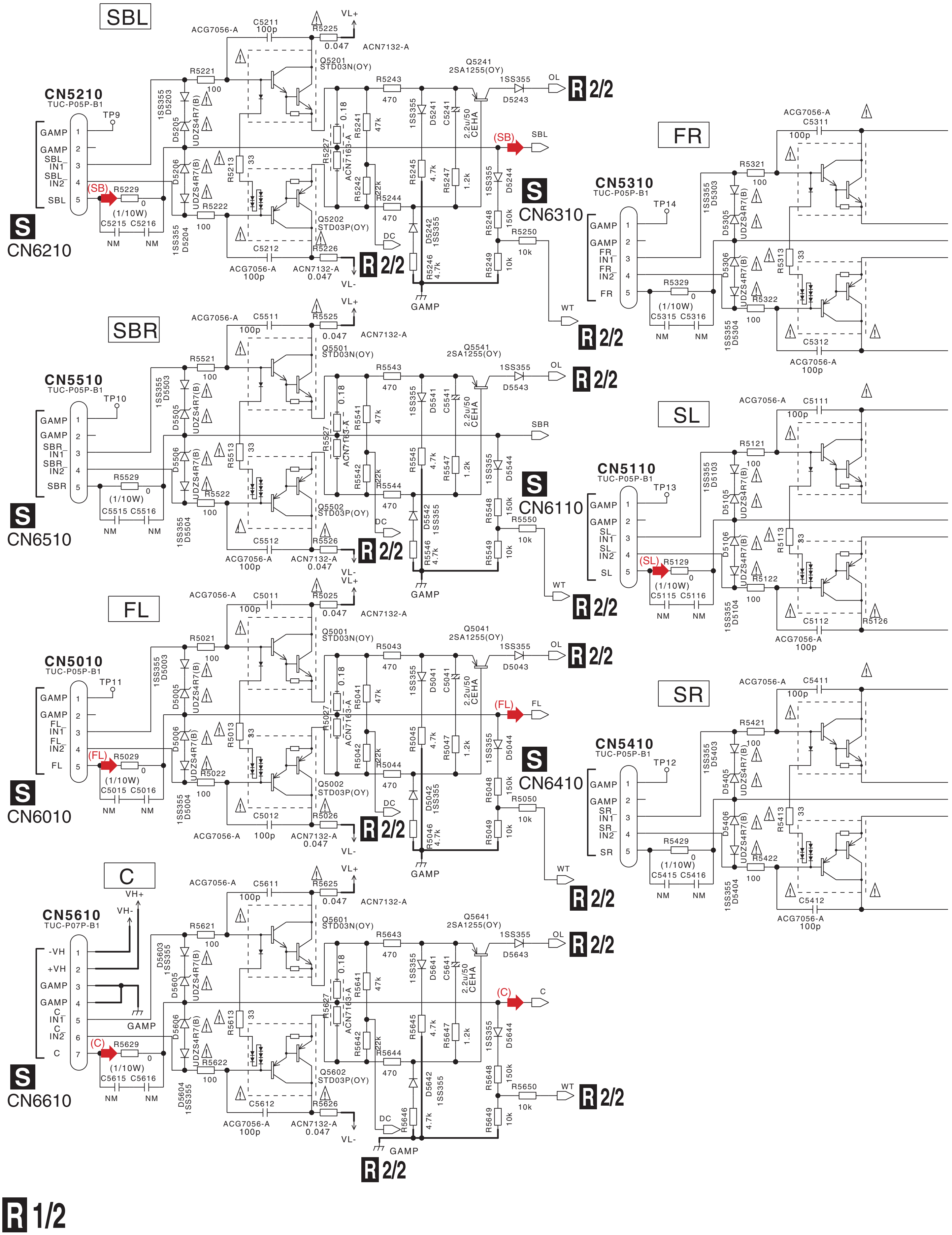
1.RESISTORS

Unit :k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated:power :1/10W unless otherwise noted.
Tolerance :(J)±5% unless otherwise noted.

2,CAPACITORS

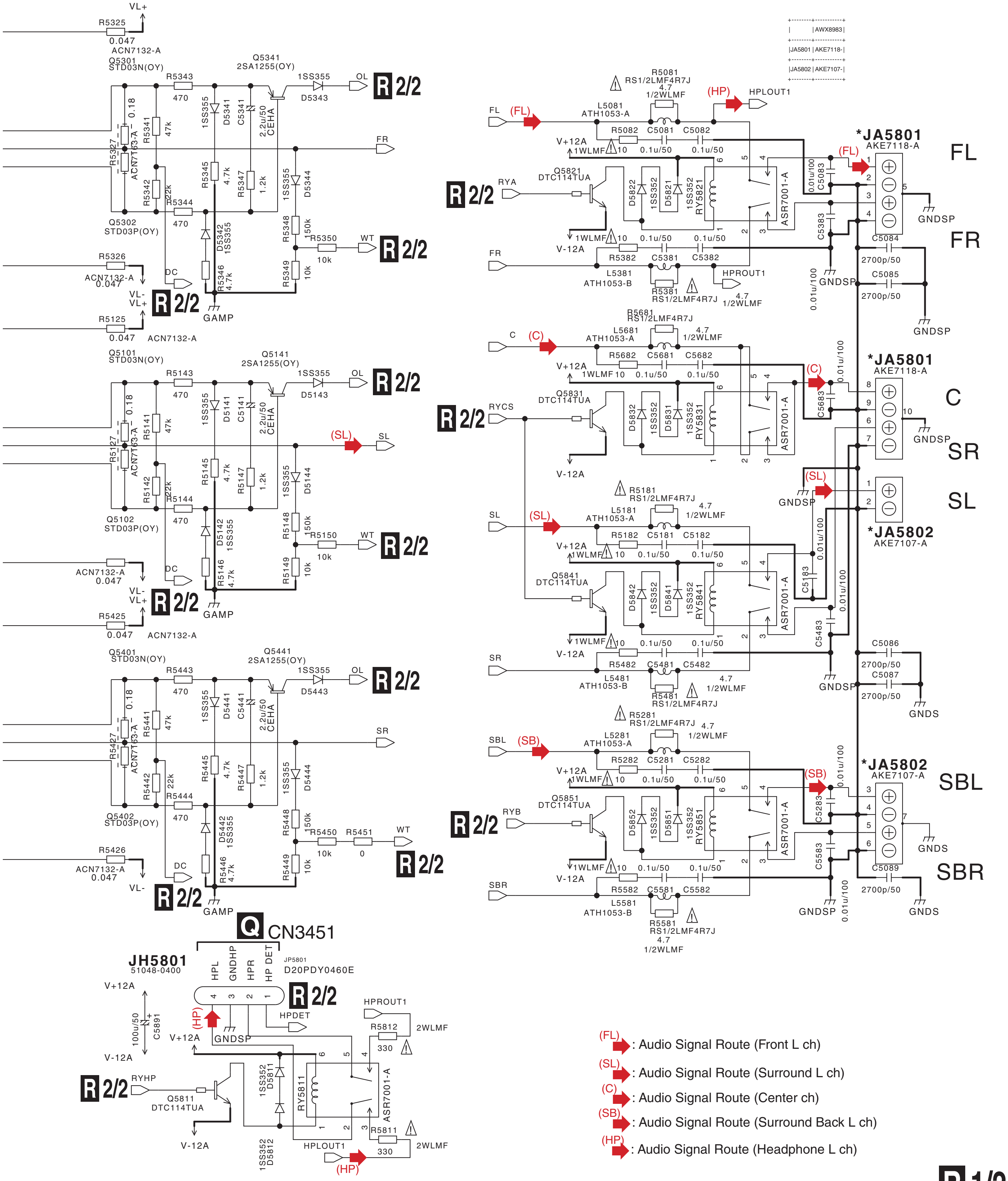
Unit :p-pF or μF or unless otherwise noted.
Ratings :Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage :50V except for electrolytic capacitors.

10.20 POWER AMP ASSY (1/2)


SBL
SBR
FL
C
FR
SL
SR
CN5210
TUC-P05P-B1
CN5510
TUC-P05P-B1
CN5010
TUC-P05P-B1
CN5610
TUC-P07P-B1
CN5310
TUC-P05P-B1
CN5110
TUC-P05P-B1
CN5410
TUC-P05P-B1
S CN6210
S CN6510
S CN6010
S CN6610
S CN6310
S CN6110
S CN6410
TP9
TP10
TP11
TP12
TP13
TP14
GAMP
SBL_IN1
SBL_IN2
SBR_IN1
SBR_IN2
FL_IN1
FL_IN2
C_IN1
C_IN2
FR_IN1
FR_IN2
SL_IN1
SL_IN2
SR_IN1
SR_IN2
-VH
+VH
VH+
VH-
VL+
VL-
(SB)
(SL)
(FL)
(C)
R5229
R5529
R5029
R5629
R5329
R5129
R5429
(1/10W)
C5215 C5216
C5515 C5516
C5015 C5016
C5615 C5616
C5315 C5316
C5115 C5116
C5415 C5416
NM
ACG7056-A
ACN7132-A
ACN7163-A
C5211 100p
C5212 100p
R5225 0.047
R5226 0.047
Q5201 STD03N(OY)
Q5202 STD03P(OY)
Q5241 2SA1255(OY)
Q5541 2SA1255(OY)
Q5041 2SA1255(OY)
Q5641 2SA1255(OY)
Q5501 STD03N(OY)
Q5502 STD03P(OY)
Q5001 STD03N(OY)
Q5002 STD03P(OY)
Q5601 STD03N(OY)
Q5602 STD03P(OY)
R5221 100
R5222 100
R5213 33
R5227 0.18
R5241 47k
R5242 22k
R5243 470
R5244 470
R5245 4.7k
R5246 4.7k
R5247 1.2k
R5248 150k
R5249 10k
R5250 10k
C5241 2.2u/50 CEHA
D5203 1SS355
D5204 1SS355
D5205 UDZS4R7(B)
D5206 UDZS4R7(B)
D5241 1SS355
D5242 1SS355
D5243 1SS355
D5244 1SS355
C5511 C5512
R5521 R5522 R5513 R5527 R5541 R5542 R5543 R5544 R5545 R5546 R5547 R5548 R5549 R5550 R5525 R5526
D5503 D5504 D5505 D5506 D5541 D5542 D5543 D5544
C5541
C5011 C5012
R5021 R5022 R5013 R5027 R5041 R5042 R5043 R5044 R5045 R5046 R5047 R5048 R5049 R5050 R5025 R5026
D5003 D5004 D5005 D5006 D5041 D5042 D5043 D5044
C5041
C5611 C5612
R5621 R5622 R5613 R5627 R5641 R5642 R5643 R5644 R5645 R5646 R5647 R5648 R5649 R5650 R5625 R5626
D5603 D5604 D5605 D5606 D5641 D5642 D5643 D5644
C5641
C5311 C5312 R5321 R5322 R5313 D5303 D5304 D5305 D5306
C5111 C5112 R5121 R5122 R5113 R5126 D5103 D5104 D5105 D5106
C5411 C5412 R5421 R5422 R5413 D5403 D5404 D5405 D5406
OL
DC
WT
SBL
SBR
FL
C
GAMP
R 2/2
R 1/2

R 1/2 POWER AMP ASSY (AWX8983)

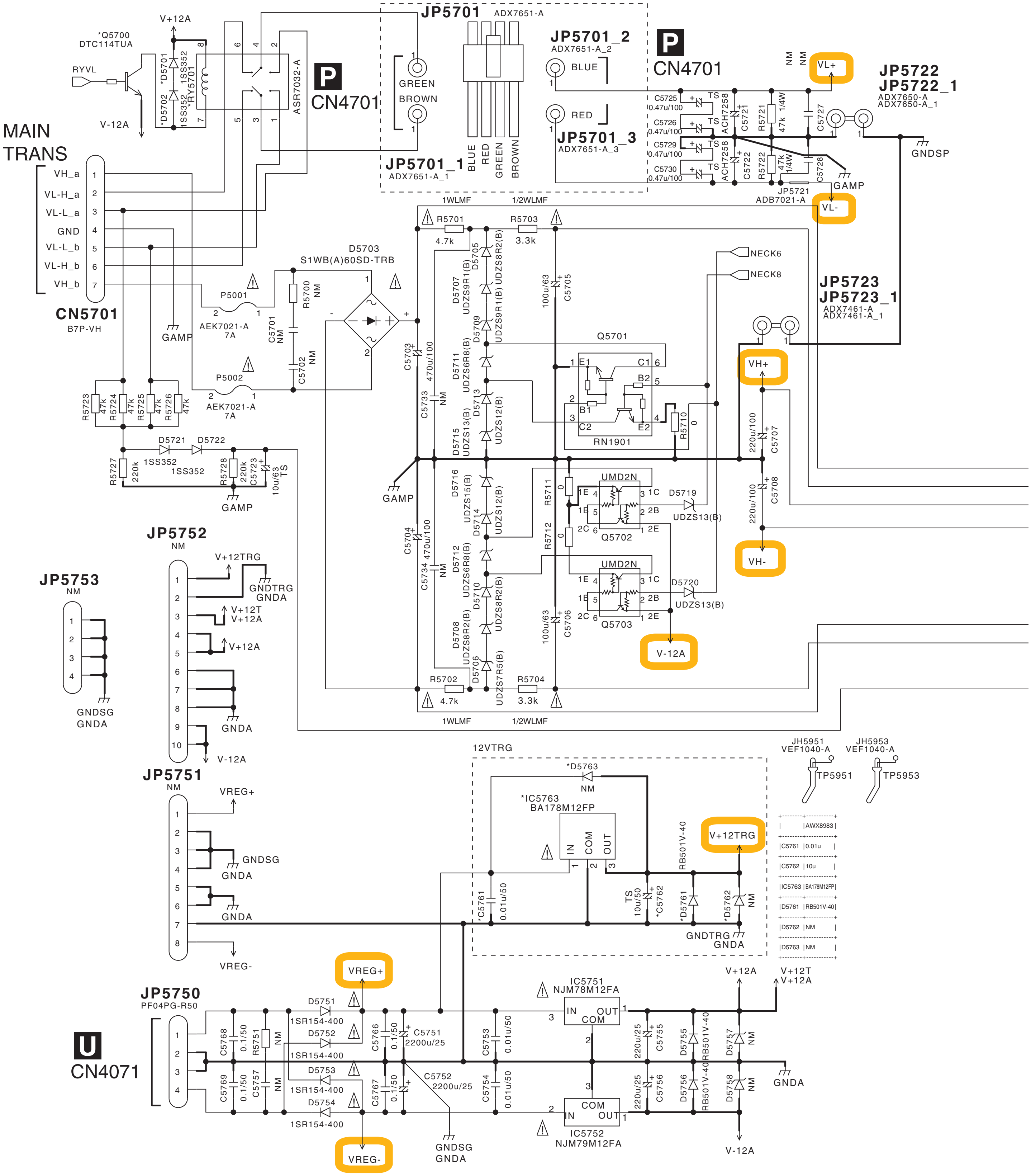
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore,when replacing ,be,sure to use parts of identical desigantion.


VL+
R5325
0.047
ACN7132-A
Q5301
STD03N(OY)
Q5341
2SA1255(OY)
R5343
470
1SS355
D5343
OL
R 2/2
D5341
C5341
2.2u/50
CEHA
R5327
0.18
R5341
47k
ACN7163-A
FR
R5342
22k
R5344
470
R5345
4.7k
R5347
1.2k
1SS355
D5344
Q5302
STD03P(OY)
D5342
1SS355
R5348
150k
R5350
10k
WT
R5326
ACN7132-A
0.047
DC
R5346
4.7k
R5349
10k
VL-
GAMP
R5125
ACN7132-A
Q5101
STD03N(OY)
Q5141
2SA1255(OY)
R5143
D5143
R5127
R5141
D5141
C5141
SL
(SL)
R5142
R5144
R5145
R5147
D5144
Q5102
STD03P(OY)
D5142
R5148
R5150
R5146
R5149
R5425
Q5401
STD03N(OY)
Q5441
2SA1255(OY)
R5443
D5443
R5427
R5441
D5441
C5441
SR
R5442
R5444
R5445
R5447
D5444
Q5402
STD03P(OY)
D5442
R5448
R5450
R5451
0
R5426
R5446
R5449
Q CN3451
JH5801
51048-0400
HPL
GNDHP
HPR
HP DET
JP5801
D20PDY0460E
V+12A
100u/50
C5891
V-12A
(HP)
GNDSP
HPDET
HPROUT1
R5812
330
2WLMF
RYHP
Q5811
DTC114TUA
1SS352
D5811
RY5811
ASR7001-A
R5811
HPLOUT1
D5812
FL
(FL)
R5081
RS1/2LMF4R7J
4.7
1/2WLMF
(HP)
HPLOUT1
L5081
ATH1053-A
R5082
C5081
C5082
0.1u/50
V+12A
1WLMF
10
RYA
Q5821
DTC114TUA
D5822
D5821
1SS352
RY5821
ASR7001-A
0.01u/100
C5083
C5383
*JA5801
AKE7118-A
FL
FR
GNDSP
C5084
2700p/50
C5085
R5382
C5381
C5382
L5381
ATH1053-B
R5381
RS1/2LMF4R7J
HPROUT1
C
(C)
R5681
RS1/2LMF4R7J
L5681
ATH1053-A
R5682
C5681
C5682
RYCS
Q5831
DTC114TUA
D5832
D5831
RY5831
C5683
*JA5801
AKE7118-A
C
SR
SL
(SL)
*JA5802
AKE7107-A
R5181
RS1/2LMF4R7J
L5181
ATH1053-A
R5182
C5181
C5182
Q5841
DTC114TUA
D5842
D5841
RY5841
C5183
C5483
R5482
C5481
C5482
L5481
ATH1053-B
R5481
RS1/2LMF4R7J
C5086
C5087
GNDS
SBL
(SB)
R5281
RS1/2LMF4R7J
L5281
ATH1053-A
R5282
C5281
C5282
RYB
Q5851
DTC114TUA
D5852
D5851
RY5851
C5283
*JA5802
AKE7107-A
SBL
SBR
C5583
C5089
R5582
C5581
C5582
L5581
ATH1053-B
R5581
RS1/2LMF4R7J

```
+--------+-----------+
|        | AWX8983 |
+--------+-----------+
|JA5801 | AKE7118- |
+--------+-----------+
|JA5802 | AKE7107- |
+--------+-----------+
```

(FL): Audio Signal Route (Front L ch)
(SL): Audio Signal Route (Surround L ch)
(C): Audio Signal Route (Center ch)
(SB): Audio Signal Route (Surround Back L ch)
(HP): Audio Signal Route (Headphone L ch)

10.21 POWER AMP ASSY (2/2)


A
B
C
D
E
F
V+12A
*Q5700
DTC114TUA
RYVL
V-12A
*D5701
1SS352
*D5702
1SS352
*RY5701
ASR7032-A
P
CN4701
JP5701
ADX7651-A
GREEN
BROWN
BLUE
RED
GREEN
BROWN
JP5701_1
ADX7651-A_1
JP5701_2
ADX7651-A_2
BLUE
RED
JP5701_3
ADX7651-A_3
P
CN4701
NM
NM
VL+
JP5722
JP5722_1
ADX7650-A
ADX7650-A_1
C5725
0.47u/100
C5726
0.47u/100
C5729
0.47u/100
C5730
0.47u/100
TS
ACH7258
C5721
R5721
47k 1/4W
C5727
C5722
R5722
47k 1/4W
C5728
GNDSP
GAMP
JP5721
ADB7021-A
VL-
MAIN
TRANS
VH_a
VL-H_a
VL-L_a
GND
VL-L_b
VL-H_b
VH_b
CN5701
B7P-VH
GAMP
P5001
AEK7021-A
7A
P5002
AEK7021-A
7A
D5703
S1WB(A)60SD-TRB
R5700
NM
C5701
NM
C5702
NM
1WLMF
1/2WLMF
R5701
4.7k
R5703
3.3k
D5705
UDZS8R2(B)
D5707
UDZS9R1(B)
D5709
UDZS9R1(B)
D5711
UDZS6R8(B)
D5713
UDZS12(B)
D5715
UDZS13(B)
C5703
470u/100
C5733
NM
100u/63
C5705
NECK6
NECK8
Q5701
E1
C1
B2
B1
C2
E2
RN1901
R5710
0
JP5723
JP5723_1
ADX7461-A
ADX7461-A_1
VH+
220u/100
C5707
220u/100
C5708
VH-
R5723
47k
R5724
47k
R5725
47k
R5726
47k
D5721
1SS352
D5722
1SS352
R5727
220k
R5728
220k
C5723
10u/63
TS
GAMP
GAMP
D5716
UDZS15(B)
D5714
UDZS12(B)
C5704
470u/100
C5734
NM
D5712
UDZS6R8(B)
D5710
UDZS8R2(B)
D5708
UDZS8R2(B)
D5706
UDZS7R5(B)
R5711
R5712
0
UMD2N
Q5702
D5719
UDZS13(B)
UMD2N
Q5703
D5720
UDZS13(B)
100u/63
C5706
V-12A
R5702
4.7k
R5704
3.3k
1WLMF
1/2WLMF
JP5752
NM
V+12TRG
GNDTRG
GNDA
V+12T
V+12A
V+12A
GNDA
V-12A
JP5753
NM
GNDSG
GNDA
JP5751
NM
VREG+
GNDSG
GNDA
GNDA
VREG-
12VTRG
*D5763
NM
*IC5763
BA178M12FP
IN
COM
OUT
RB501V-40
V+12TRG
*C5761
0.01u/50
TS
10u/50
*C5762
*D5761
*D5762
NM
GNDTRG
GNDA
JH5951
VEF1040-A
TP5951
JH5953
VEF1040-A
TP5953
VREG+
JP5750
PF04PG-R50
U
CN4071
C5768
0.1/50
R5751
NM
C5769
0.1/50
C5757
NM
D5751
1SR154-400
D5752
1SR154-400
D5753
1SR154-400
D5754
1SR154-400
C5766
0.1/50
C5751
2200u/25
C5767
0.1/50
C5752
2200u/25
C5753
0.01u/50
C5754
0.01u/50
IC5751
NJM78M12FA
IN
OUT
COM
COM
IN
OUT
IC5752
NJM79M12FA
GNDSG
GNDA
VREG-
V+12A
V+12T
V+12A
220u/25
C5755
220u/25
C5756
D5755
RB501V-40
D5756
RB501V-40
D5757
NM
D5758
NM
GNDA
V-12A

	AWX8983
C5761	0.01u
C5762	10u
IC5763	BA178M12FP
D5761	RB501V-40
D5762	NM
D5763	NM

R 2/2 POWER AMP ASSY (AWX8983)

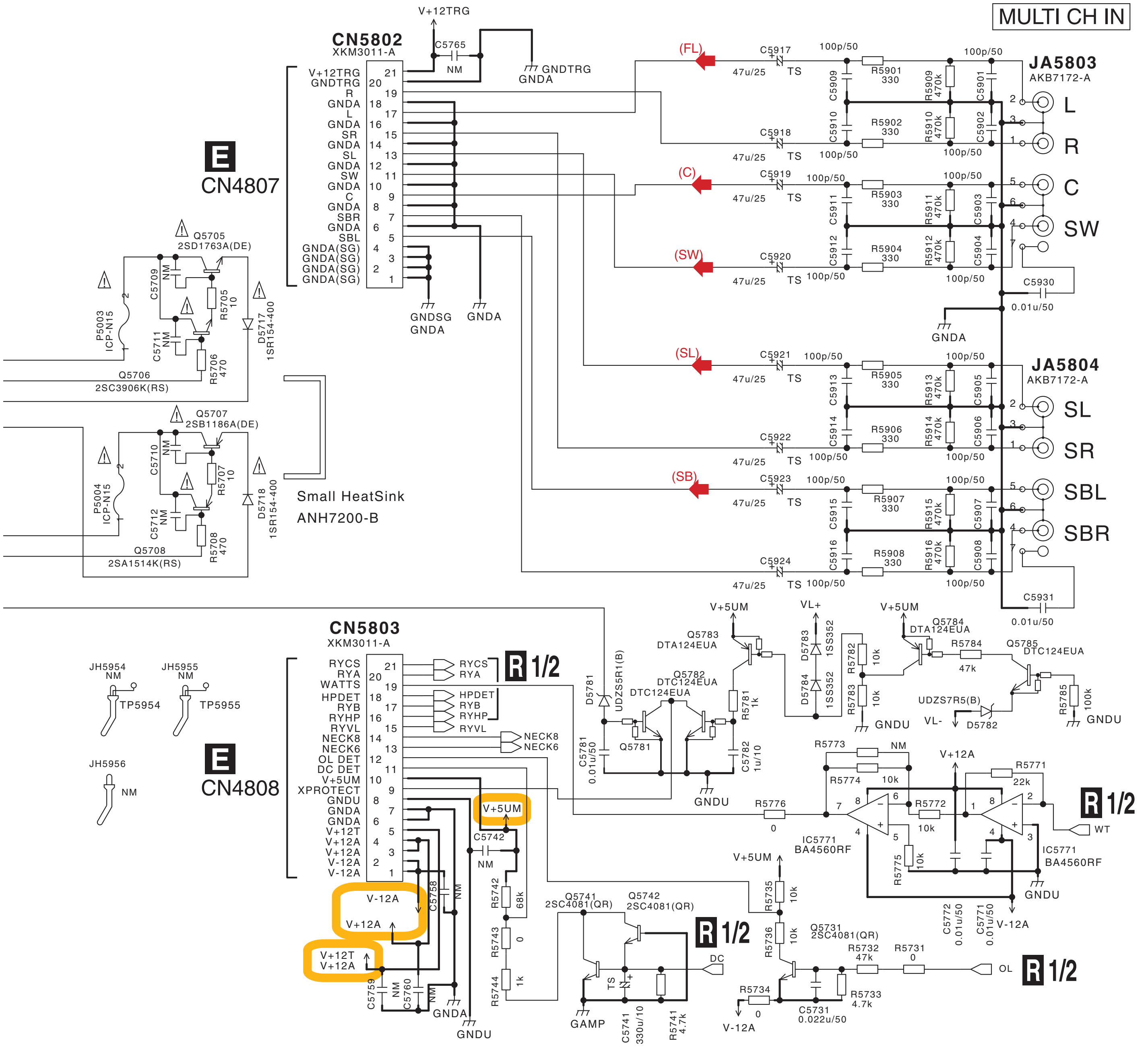
A

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore,when replacing ,be,sure to use parts of identical desigantion.

caution
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE WITH SAME TYPE AND RATINGS OF FUSE.

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491007 MFD, BY LITTELFUSE INK. FOR P5001 and P5002.

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. ICP-N15, MFD BY ROHM CO., LTD. FOR P5003 and P5004.



MULTI CH IN
B
C
D
E
V+12TRG
CN5802
XKM3011-A
C5765
NM
GNDTRG
GNDA
V+12TRG 21
GNDTRG 20
R 19
GNDA 18
L 17
GNDA 16
SR 15
GNDA 14
SL 13
GNDA 12
SW 11
GNDA 10
C 9
GNDA 8
SBR 7
GNDA 6
SBL 5
GNDA(SG) 4
GNDA(SG) 3
GNDA(SG) 2
GNDA(SG) 1
GNDSG
GNDA
E
CN4807
(FL)
(C)
(SW)
(SL)
(SB)
C5917
C5918
C5919
C5920
C5921
C5922
C5923
C5924
47u/25
TS
100p/50
C5909
C5910
C5911
C5912
C5913
C5914
C5915
C5916
R5901 330
R5902 330
R5903 330
R5904 330
R5905 330
R5906 330
R5907 330
R5908 330
R5909 470k
R5910 470k
R5911 470k
R5912 470k
R5913 470k
R5914 470k
R5915 470k
R5916 470k
C5901
C5902
C5903
C5904
C5905
C5906
C5907
C5908
JA5803
AKB7172-A
L
R
C
SW
C5930
0.01u/50
GNDA
JA5804
AKB7172-A
SL
SR
SBL
SBR
C5931
0.01u/50
Q5705
2SD1763A(DE)
C5709
NM
R5705 10
P5003
ICP-N15
C5711
NM
R5706 470
D5717
1SR154-400
Q5706
2SC3906K(RS)
Q5707
2SB1186A(DE)
C5710
NM
R5707 10
P5004
ICP-N15
C5712
NM
R5708 470
D5718
1SR154-400
Q5708
2SA1514K(RS)
Small HeatSink
ANH7200-B
CN5803
XKM3011-A
RYCS 21
RYA 20
WATTS 19
HPDET 18
RYB 17
RYHP 16
RYVL 15
NECK8 14
NECK6 13
OL DET 12
DC DET 11
V+5UM 10
XPROTECT 9
GNDU 8
GNDA 7
GNDA 6
V+12T 5
V+12A 4
V+12A 3
V-12A 2
V-12A 1
RYCS
RYA
R 1/2
HPDET
RYB
RYHP
RYVL
NECK8
NECK6
JH5954
NM
TP5954
JH5955
NM
TP5955
JH5956
NM
E
CN4808
V+5UM
C5742
NM
V-12A
V+12A
C5758
NM
V+12T
V+12A
C5759
NM
C5760
NM
GNDA
GNDU
R5742 68k
R5743 0
R5744 1k
Q5741
2SC4081(QR)
Q5742
2SC4081(QR)
R 1/2
DC
GAMP
TS
C5741
330u/10
R5741
4.7k
V+5UM
VL+
Q5783
DTA124EUA
D5783
1SS352
D5784
1SS352
R5782 10k
R5783 10k
GNDU
D5781
UDZS5R1(B)
Q5782
DTC124EUA
DTC124EUA
Q5781
C5781
0.01u/50
R5781 1k
C5782
1u/10
GNDU
V+5UM
Q5784
DTA124EUA
R5784 47k
Q5785
DTC124EUA
UDZS7R5(B)
VL-
D5782
R5785 100k
GNDU
R5773
NM
R5774 10k
V+12A
R5771 22k
R 1/2
R5776 0
R5772 10k
WT
IC5771
BA4560RF
IC5771
BA4560RF
V+5UM
R5775 10k
GNDU
R5735 10k
R5736 10k
Q5731
2SC4081(QR)
R5732 47k
R5731 0
OL
R 1/2
C5772
0.01u/50
C5771
0.01u/50
V-12A
R5734 0
V-12A
C5731
0.022u/50
R5733
4.7k

(FL) : Audio Signal Route (Front L ch)

(SL) : Audio Signal Route (Surround L ch)

(C) : Audio Signal Route (Center ch)

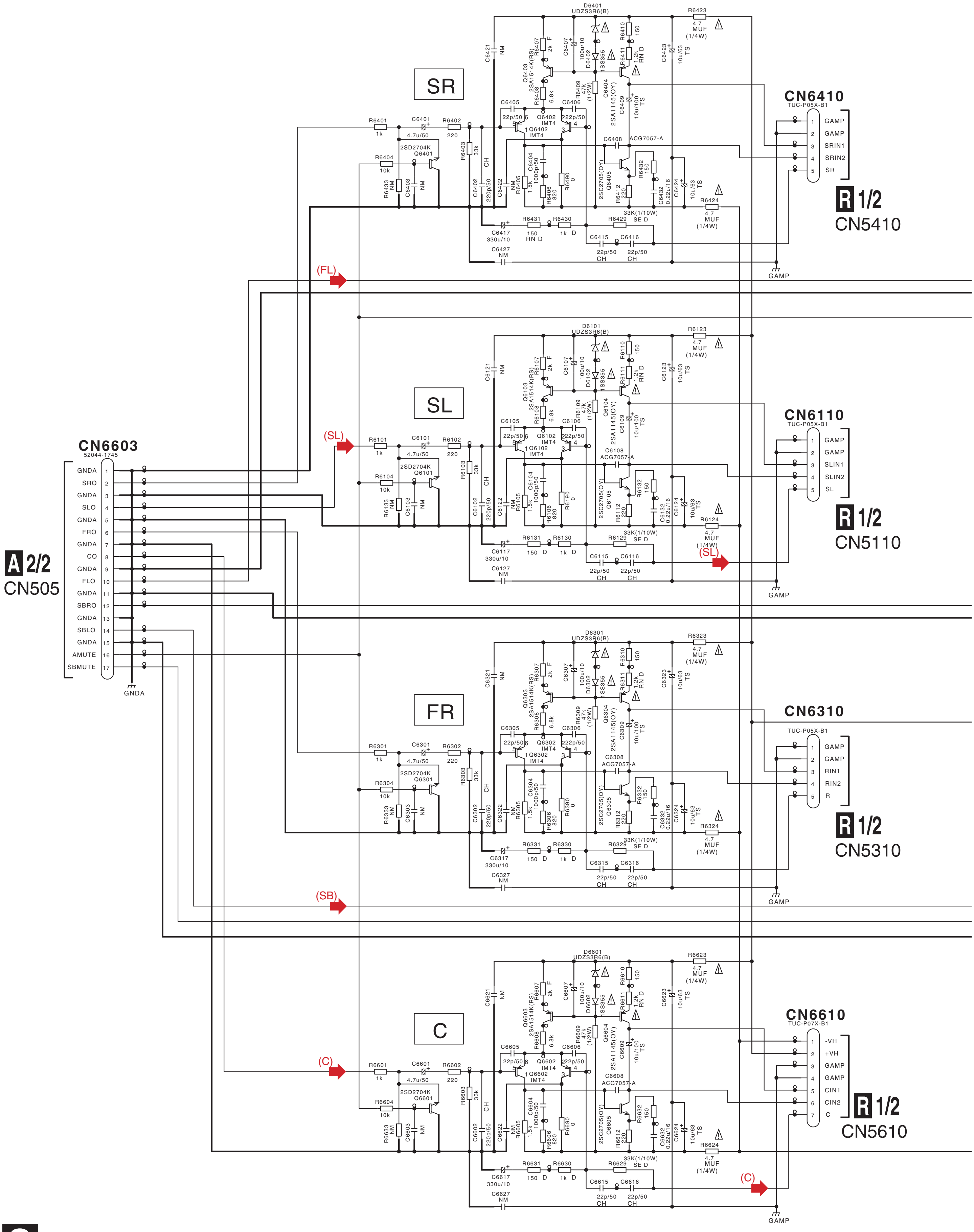
(SB) : Audio Signal Route (Surround Back L ch)

(SW) : Audio Signal Route (SubWoofer ch)

F

R 2/2

10.22 PRE-STAGE AMP ASSY

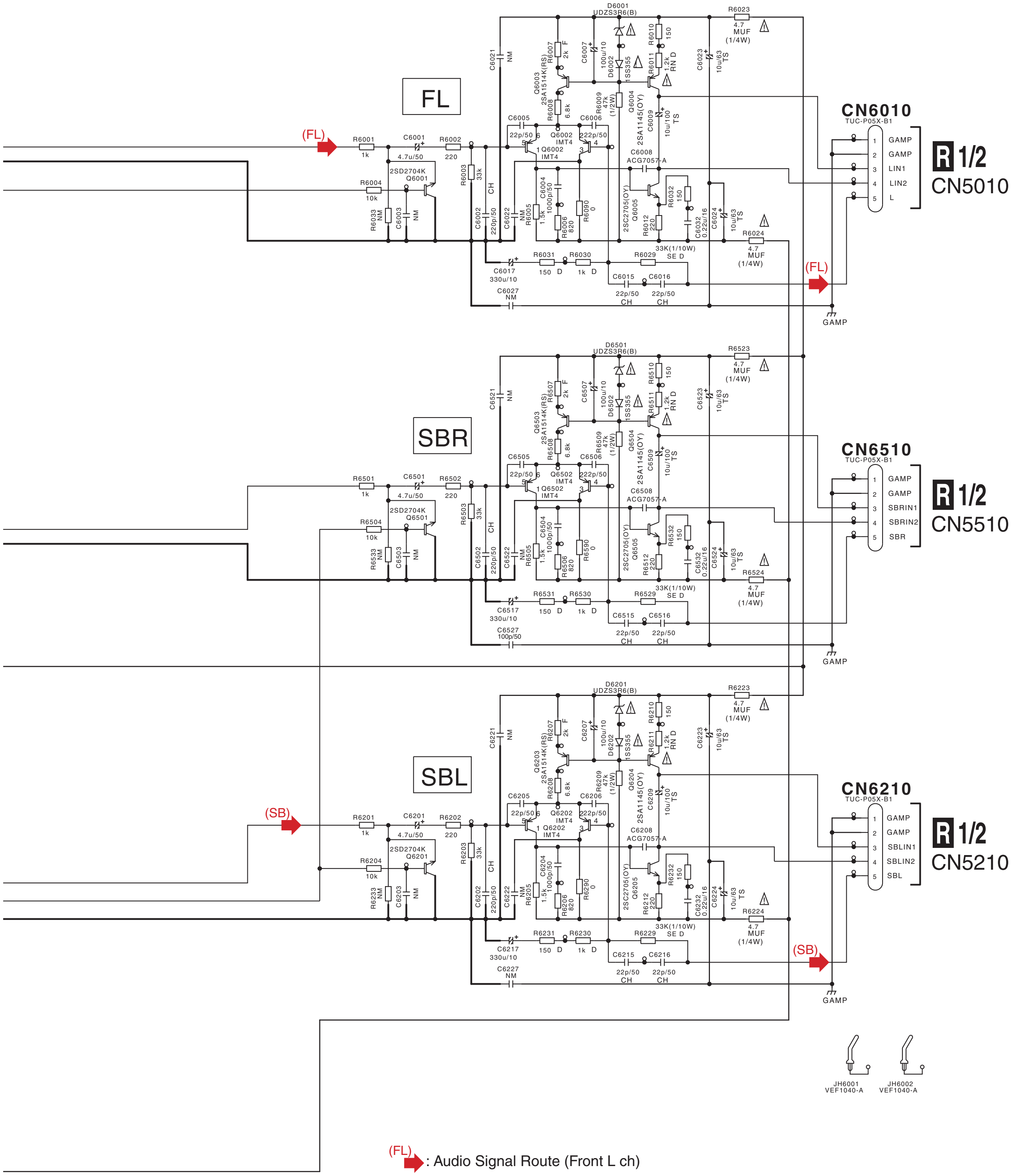

A
B
C
D
E
F
SR
SL
FR
C
CN6603
52044-1745
GNDA 1
SRO 2
GNDA 3
SLO 4
GNDA 5
FRO 6
GNDA 7
CO 8
GNDA 9
FLO 10
GNDA 11
SBRO 12
GNDA 13
SBLO 14
GNDA 15
AMUTE 16
SBMUTE 17
GNDA
A 2/2
CN505
(FL)
(SL)
(SB)
(C)
CN6410
TUC-P05X-B1
1 GAMP
2 GAMP
3 SRIN1
4 SRIN2
5 SR
R 1/2
CN5410
CN6110
TUC-P05X-B1
1 GAMP
2 GAMP
3 SLIN1
4 SLIN2
5 SL
R 1/2
CN5110
CN6310
TUC-P05X-B1
1 GAMP
2 GAMP
3 RIN1
4 RIN2
5 R
R 1/2
CN5310
CN6610
TUC-P07X-B1
1 -VH
2 +VH
3 GAMP
4 GAMP
5 CIN1
6 CIN2
7 C
R 1/2
CN5610
GAMP
D6401 UDZS3R6(B)
R6423 4.7 MUF (1/4W)
C6421 NM
Q6403 2SA1514K(RS)
R6407 2k F
C6407 100u/10
D6402 1SS355
R6410 150
R6411 1.2k RN D
C6423 10u/63 TS
R6408 6.8k
R6409 47k (1/2W)
Q6404 2SA1145(OY)
C6409 10u/100 TS
C6405 22p/50
C6406 22p/50
Q6402 IMT4
R6401 1k
C6401 4.7u/50
R6402 220
2SD2704K Q6401
R6404 10k
R6403 33k
CH
C6408
ACG7057-A
R6433 NM
C6403 NM
C6402 220p/50
C6422
R6405 NM 1.5k
C6404 1000p/50
R6406 820
R6490 0
2SC2705(OY) Q6405
R6432 150
R6412 220
C6432 0.22u/16
C6424 10u/63 TS
R6424 4.7 MUF (1/4W)
33K(1/10W)
R6429 SE D
C6417 330u/10
R6431 150 RN D
R6430 1k D
C6415 22p/50 CH
C6416 22p/50 CH
C6427 NM
D6101 UDZS3R6(B)
R6123 4.7 MUF (1/4W)
C6121 NM
Q6103 2SA1514K(RS)
R6107 2k F
C6107 100u/10
D6102 1SS355
R6110 150
R6111 1.2k RN D
C6123 10u/63 TS
R6108 6.8k
R6109 47k (1/2W)
Q6104 2SA1145(OY)
C6109 10u/100 TS
C6105 22p/50
C6106 22p/50
Q6102 IMT4
R6101 1k
C6101 4.7u/50
R6102 220
2SD2704K Q6101
R6104 10k
R6103 33k
C6108 ACG7057-A
R6133 NM
C6103 NM
C6102 220p/50
C6122
R6105 NM 1.5k
C6104 1000p/50
R6106 820
R6190 0
2SC2705(OY) Q6105
R6132 150
R6112 220
C6132 0.22u/16
C6124 10u/63 TS
R6124 4.7 MUF (1/4W)
33K(1/10W)
R6129 SE D
C6117 330u/10
R6131 150 D
R6130 1k D
C6115 22p/50 CH
C6116 22p/50 CH
C6127 NM
D6301 UDZS3R6(B)
R6323 4.7 MUF (1/4W)
C6321 NM
Q6303 2SA1514K(RS)
R6307 2k F
C6307 100u/10
D6302 1SS355
R6310 150
R6311 1.2k RN D
C6323 10u/63 TS
R6308 6.8k
R6309 47k (1/2W)
Q6304 2SA1145(OY)
C6309 10u/100 TS
C6305 22p/50
C6306 22p/50
Q6302 IMT4
R6301 1k
C6301 4.7u/50
R6302 220
2SD2704K Q6301
R6304 10k
R6303 33k
C6308 ACG7057-A
R6333 NM
C6303 NM
C6302 220p/50
C6322
R6305 NM 1.5k
C6304 1000p/50
R6306 820
R6390 0
2SC2705(OY) Q6305
R6332 150
R6312 220
C6332 0.22u/16
C6324 10u/63 TS
R6324 4.7 MUF (1/4W)
33K(1/10W)
R6329 SE D
C6317 330u/10
R6331 150 D
R6330 1k D
C6315 22p/50 CH
C6316 22p/50 CH
C6327 NM
D6601 UDZS3R6(B)
R6623 4.7 MUF (1/4W)
C6621 NM
Q6603 2SA1514K(RS)
R6607 2k F
C6607 100u/10
D6602 1SS355
R6610 150
R6611 1.2k RN D
C6623 10u/63 TS
R6608 6.8k
R6609 47k (1/2W)
Q6604 2SA1145(OY)
C6609 10u/100 TS
C6605 22p/50
C6606 22p/50
Q6602 IMT4
R6601 1k
C6601 4.7u/50
R6602 220
2SD2704K Q6601
R6604 10k
R6603 33k
C6608 ACG7057-A
R6633 NM
C6603 NM
C6602 220p/50
C6622
R6605 NM 1.5k
C6604 1000p/50
R6606 820
R6690 0
2SC2705(OY) Q6605
R6632 150
R6612 220
C6632 0.22u/16
C6624 10u/63 TS
R6624 4.7 MUF (1/4W)
33K(1/10W)
R6629 SE D
C6617 330u/10
R6631 150 D
R6630 1k D
C6615 22p/50 CH
C6616 22p/50 CH
C6627 NM

S PRE-STAGE AMP ASSY
(AWX8989)

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part.
Therefore,when replacing,be sure to use parts of idential designation.

NOTE
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J)±5% unless otherwise noted.

2.CAPACITORS
Unit: p-pF, or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.


FL
SBR
SBL
(FL)
(SB)
D6001 UDZS3R6(B)
R6023 4.7 MUF (1/4W)
C6021 NM
R6007 2k F
C6007 100u/10
D6002 1SS355
R6010 150
R6011 1.2k RN D
C6023 10u/63 TS
Q6003 2SA1514K(RS)
R6008 6.8k
R6009 47k (1/2W)
Q6004 2SA1145(OY)
C6009 10u/100 TS
C6005 22p/50
Q6002 IMT4
C6006 22p/50
R6001 1k
C6001 4.7u/50
R6002 220
R6004 10k
2SD2704K Q6001
R6003 33k
CH
C6008 ACG7057-A
R6033 NM
C6003 NM
C6002 220p/50
C6022 NM
R6005 1.5k
C6004 1000p/50
R6006 820
R6090 0
2SC2705(OY) Q6005
R6012 220
R6032 150
C6032 0.22u/16
C6024 10u/63 TS
R6024 4.7 MUF (1/4W)
33K(1/10W) SE D
R6029
R6031 150 D
R6030 1k D
C6017 330u/10
C6015 22p/50 CH
C6016 22p/50 CH
C6027 NM
GAMP
CN6010 TUC-P05X-B1
1 GAMP
2 GAMP
3 LIN1
4 LIN2
5 L
R 1/2 CN5010
D6501 UDZS3R6(B)
R6523
C6521 NM
R6507
C6507
D6502
R6510
R6511
C6523
Q6503 2SA1514K(RS)
R6508
R6509
Q6504 2SA1145(OY)
C6509
C6505
Q6502 IMT4
C6506
R6501
C6501
R6502
R6504
2SD2704K Q6501
R6503
C6508 ACG7057-A
R6533 NM
C6503 NM
C6502
C6522
R6505
C6504
R6506
R6590
2SC2705(OY) Q6505
R6512
R6532
C6532
C6524
R6524
R6529
R6531
R6530
C6517 330u/10
C6515
C6516
C6527 100p/50
CN6510 TUC-P05X-B1
1 GAMP
2 GAMP
3 SBRIN1
4 SBRIN2
5 SBR
R 1/2 CN5510
D6201 UDZS3R6(B)
R6223
C6221 NM
R6207
C6207
D6202
R6210
R6211
C6223
Q6203 2SA1514K(RS)
R6208
R6209
Q6204 2SA1145(OY)
C6209
C6205
Q6202 IMT4
C6206
R6201
C6201
R6202
R6204
2SD2704K Q6201
R6203
C6208 ACG7057-A
R6233 NM
C6203 NM
C6202
C6222
R6205
C6204
R6206
R6290
2SC2705(OY) Q6205
R6212
R6232
C6232
C6224
R6224
R6229
R6231
R6230
C6217 330u/10
C6215
C6216
C6227 NM
CN6210 TUC-P05X-B1
1 GAMP
2 GAMP
3 SBLIN1
4 SBLIN2
5 SBL
R 1/2 CN5210
JH6001 VEF1040-A
JH6002 VEF1040-A

(FL) ➡ : Audio Signal Route (Front L ch)

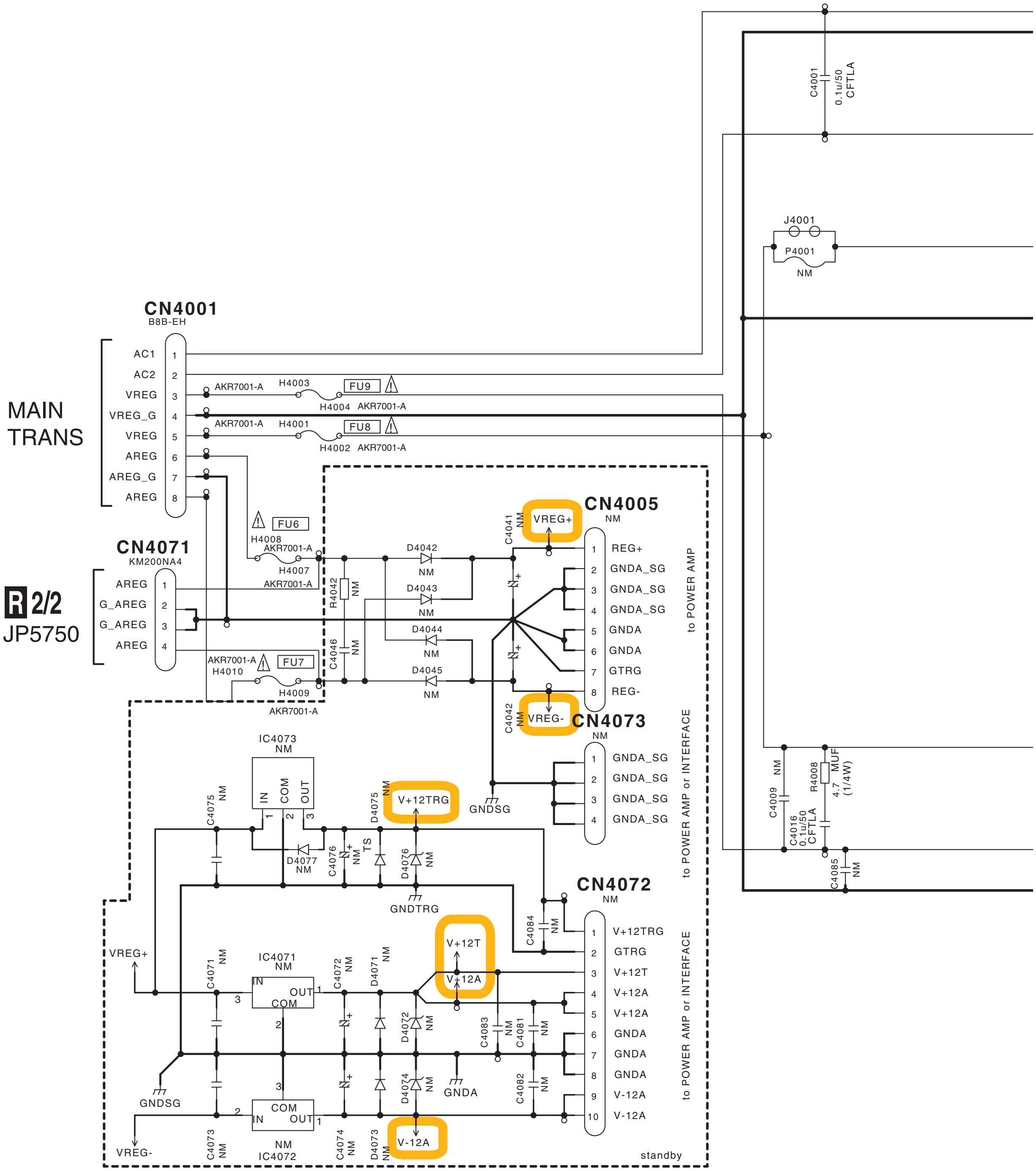
(SL) ➡ : Audio Signal Route (Surround L ch)

(C) ➡ : Audio Signal Route (Center ch)

(SB) ➡ : Audio Signal Route (Surround Back L ch)

10.23 REGULATOR ASSY

A
B
C
D
E
F


C4001
0.1u/50
CFTLA
J4001
P4001
NM
CN4001
B8B-EH
MAIN
TRANS
AC1 1
AC2 2
VREG 3
VREG_G 4
VREG 5
AREG 6
AREG_G 7
AREG 8
AKR7001-A
H4003
FU9
H4004 AKR7001-A
AKR7001-A
H4001
FU8
H4002 AKR7001-A
CN4071
KM200NA4
R 2/2
JP5750
AREG 1
G_AREG 2
G_AREG 3
AREG 4
FU6
H4008
AKR7001-A
H4007
AKR7001-A
AKR7001-A
H4010
FU7
H4009
AKR7001-A
R4042
NM
C4046
NM
D4042
NM
D4043
NM
D4044
NM
D4045
NM
C4041
NM
VREG+
CN4005
NM
1 REG+
2 GNDA_SG
3 GNDA_SG
4 GNDA_SG
5 GNDA
6 GNDA
7 GTRG
8 REG-
to POWER AMP
C4042
NM
VREG-
CN4073
NM
1 GNDA_SG
2 GNDA_SG
3 GNDA_SG
4 GNDA_SG
to POWER AMP or INTERFACE
GNDSG
IC4073
NM
IN
COM
OUT
1 2 3
C4075
NM
D4077
NM
C4076
NM
TS
D4075
NM
V+12TRG
D4076
NM
GNDTRG
CN4072
NM
C4084
NM
1 V+12TRG
2 GTRG
3 V+12T
4 V+12A
5 V+12A
6 GNDA
7 GNDA
8 GNDA
9 V-12A
10 V-12A
to POWER AMP or INTERFACE
VREG+
C4071
NM
IC4071
NM
IN
OUT
COM
C4072
NM
D4071
NM
V+12T
V+12A
D4072
NM
C4083
NM
C4081
NM
GNDSG
D4074
NM
GNDA
C4082
NM
COM
IN
OUT
VREG-
C4073
NM
NM
IC4072
C4074
NM
D4073
NM
V-12A
standby
C4009
NM
R4008
4.7 MUF
(1/4W)
C4016
0.1u/50
CFTLA
C4085
NM

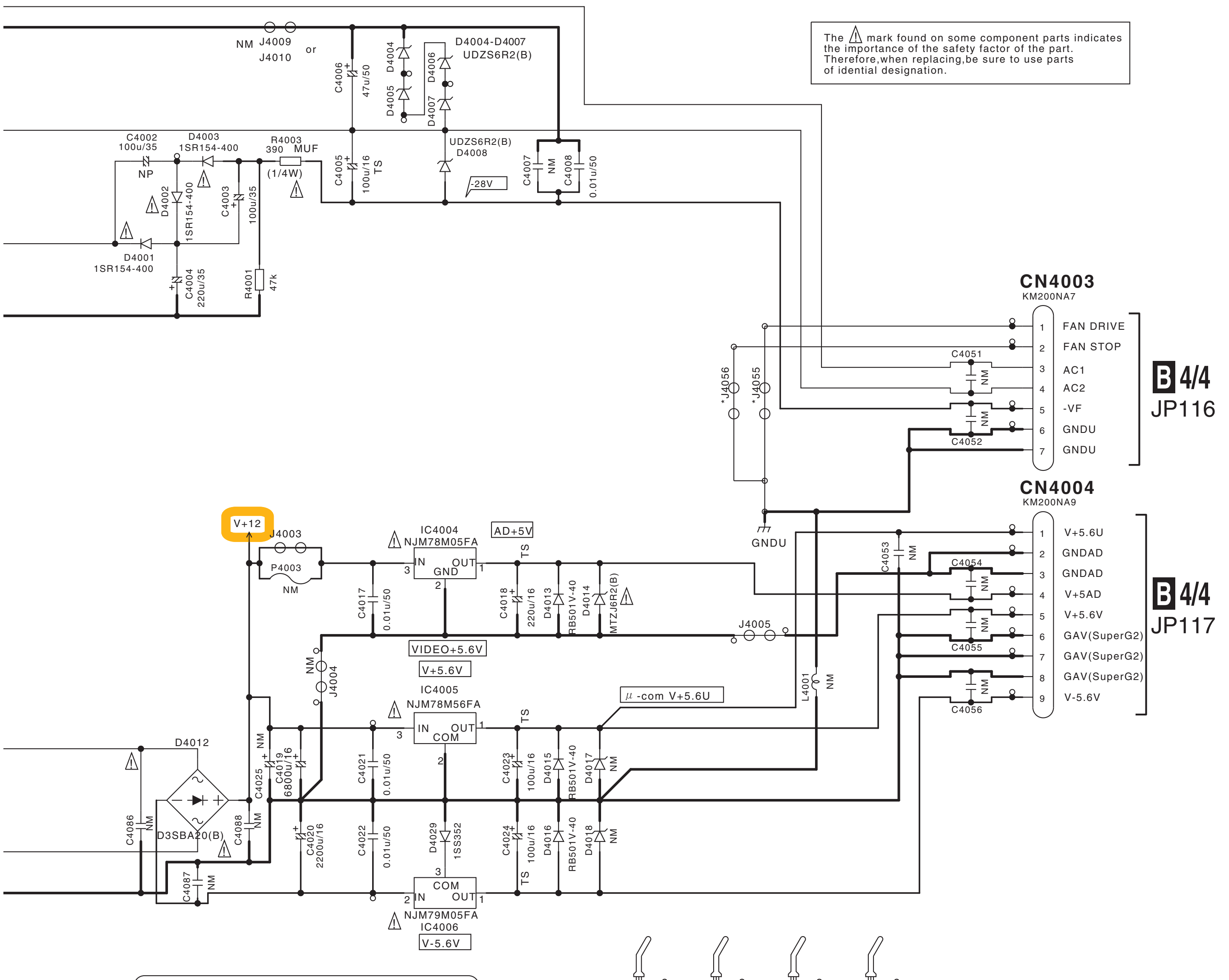
U REGULATOR ASSY (AWX8986)

NOTE

1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J)±5% unless otherwise noted.

2.CAPACITORS
Unit: p-pF, or µF unless otherwise noted.
Ratings: Capacity(µF)/Voltage(V) unless otherwise noted.

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore,when replacing,be sure to use parts of idential designation.



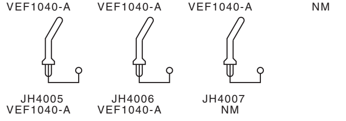
NM J4009 or J4010
C4006 47u/50
D4004 D4005 D4006 D4007
D4004-D4007 UDZS6R2(B)
C4002 100u/35 NP
D4003 1SR154-400
R4003 390 MUF (1/4W)
D4002 1SR154-400
C4003 100u/35
C4005 100u/16 TS
UDZS6R2(B) D4008
-28V
C4007 NM C4008 0.01u/50
D4001 1SR154-400
C4004 220u/35
R4001 47k
CN4003 KM200NA7
1 FAN DRIVE
2 FAN STOP
3 AC1
4 AC2
5 -VF
6 GNDU
7 GNDU
C4051 NM C4052 NM
*J4056 *J4055
B 4/4 JP116
GNDU
CN4004 KM200NA9
1 V+5.6U
2 GNDAD
3 GNDAD
4 V+5AD
5 V+5.6V
6 GAV(SuperG2)
7 GAV(SuperG2)
8 GAV(SuperG2)
9 V-5.6V
C4053 NM C4054 NM C4055 NM C4056 NM
B 4/4 JP117
V+12
J4003 P4003 NM
IC4004 NJM78M05FA IN OUT GND 3 1 2
AD+5V
C4017 0.01u/50
C4018 220u/16 TS
D4013 RB501V-40
D4014 MTZJ6R2(B)
J4005
VIDEO+5.6V
V+5.6V
NM J4004
IC4005 NJM78M56FA IN OUT COM 3 1 2
µ-com V+5.6U
L4001 NM
D4012 D3SBA20(B)
C4086 NM
C4025 NM
C4019 6800u/16
C4021 0.01u/50
C4023 100u/16 TS
D4015 RB501V-40
D4017 NM
C4088 NM
C4020 2200u/16
C4022 0.01u/50
D4029 1SS352
C4024 100u/16 TS
D4016 RB501V-40
D4018 NM
C4087 NM
IC4006 NJM79M05FA COM IN OUT 3 2 1
V-5.6V

Jumper not mount

J4002
J4004
J4011
J4007
J4009
J4006
J4022

J4012
J4013
J4014
J4028
J4054
J4048
J4049
J4050
J4051
J4052
J4053

J4037
J4038
J4039



JH4001 VEF1040-A
JH4002 VEF1040-A
JH4003 VEF1040-A
JH4004 NM
JH4005 VEF1040-A
JH4006 VEF1040-A
JH4007 NM

CAUTION
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE ONLY WITH SAME TYPE NO. ***** MFD.
BY LITTELFUSE INC.FOR IC****.

A

B

C

D

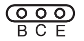
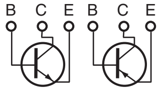
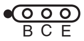
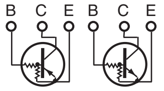
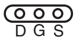
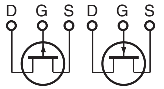
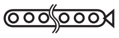
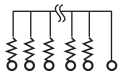
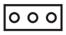
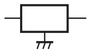
E

F

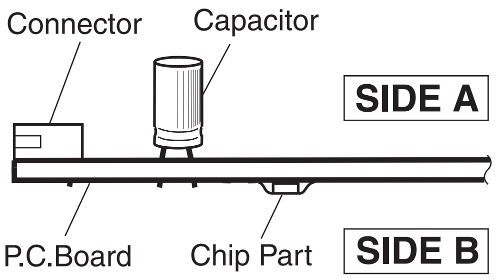
11. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

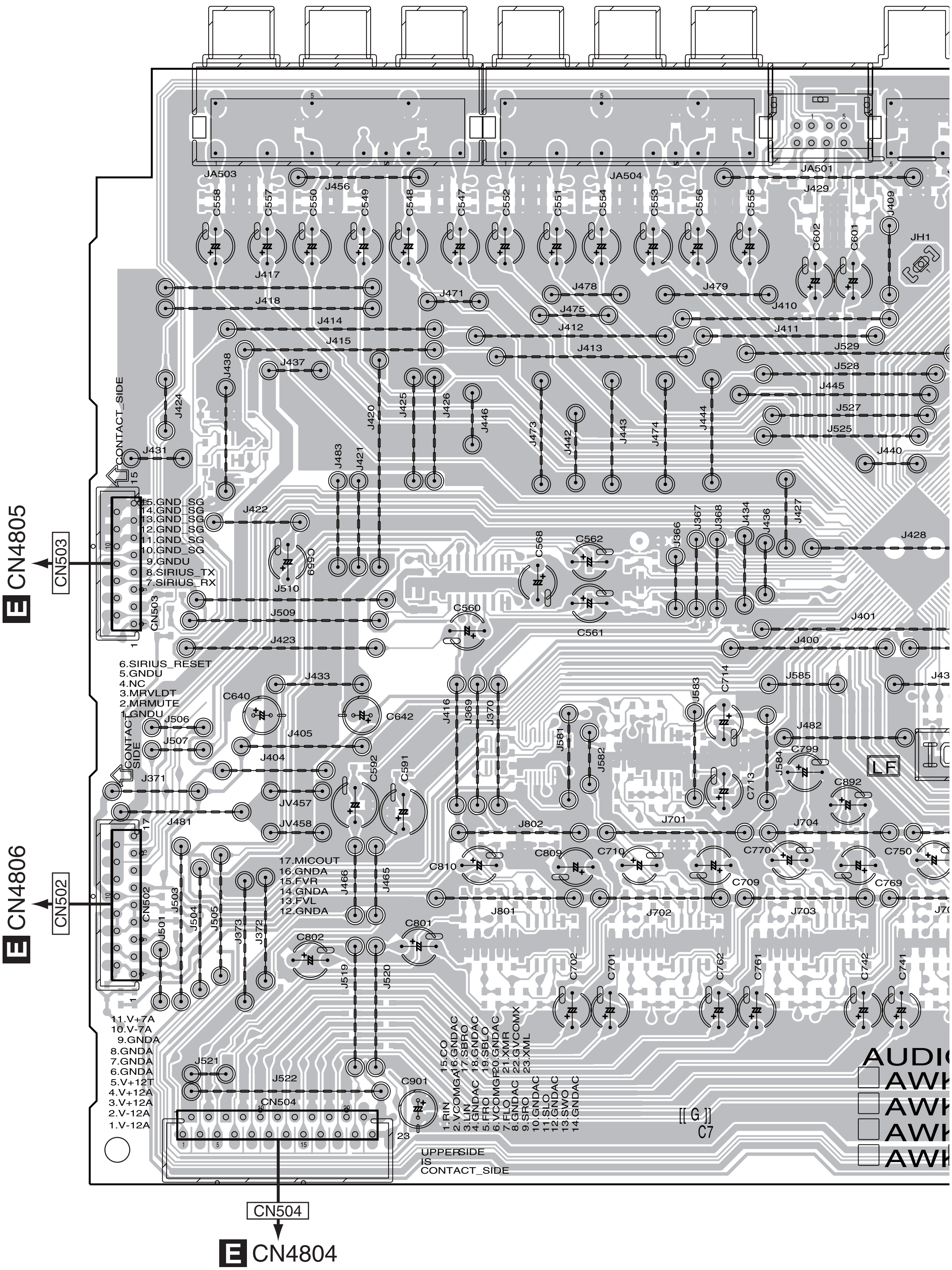
3. The parts mounted on this PCB include all necessary parts for several destinations.
   For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.

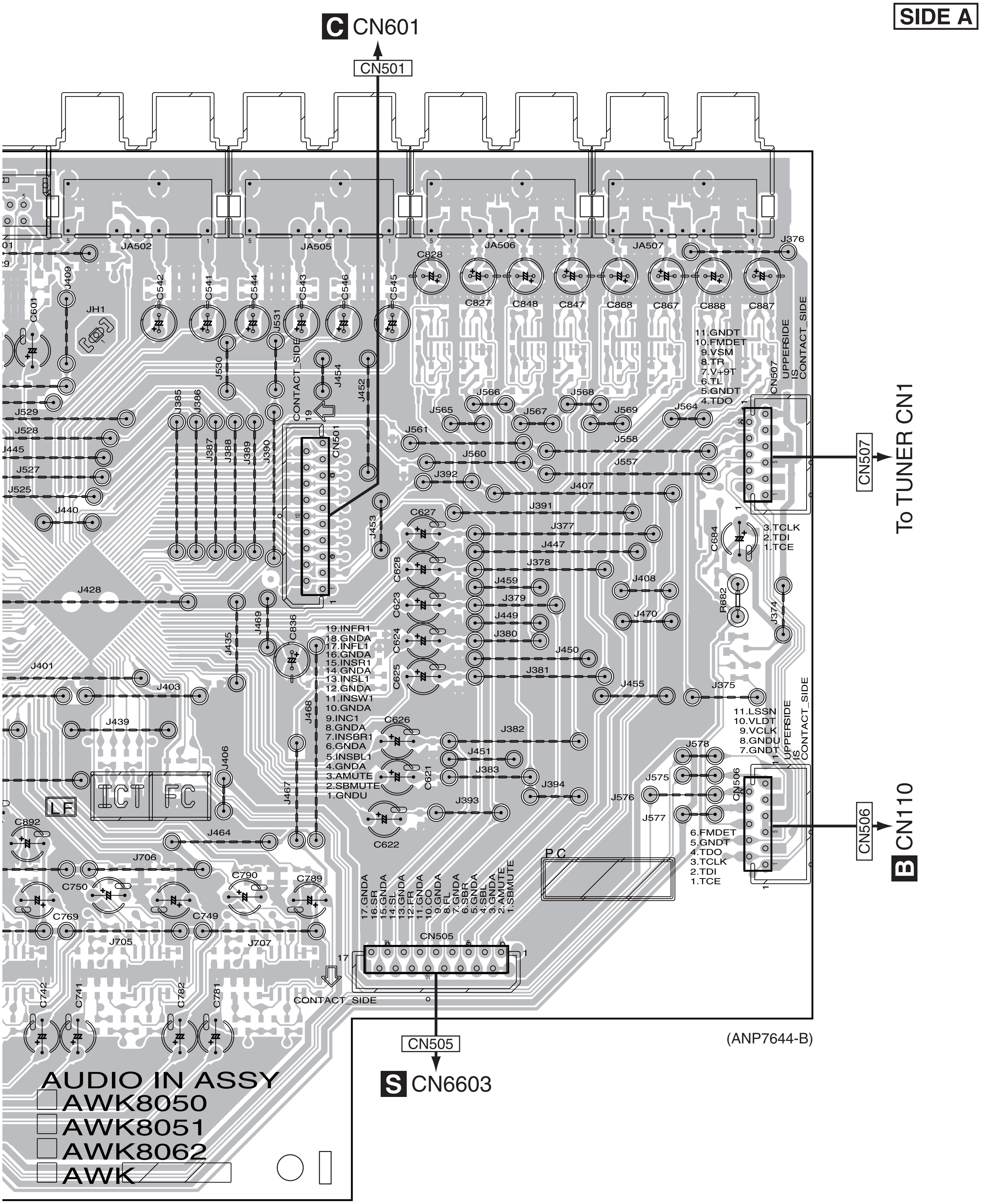

Connector
Capacitor
SIDE A
P.C.Board
Chip Part
SIDE B

11.1 AUDIO IN ASSY

SIDE A

A AUDIO IN ASSY

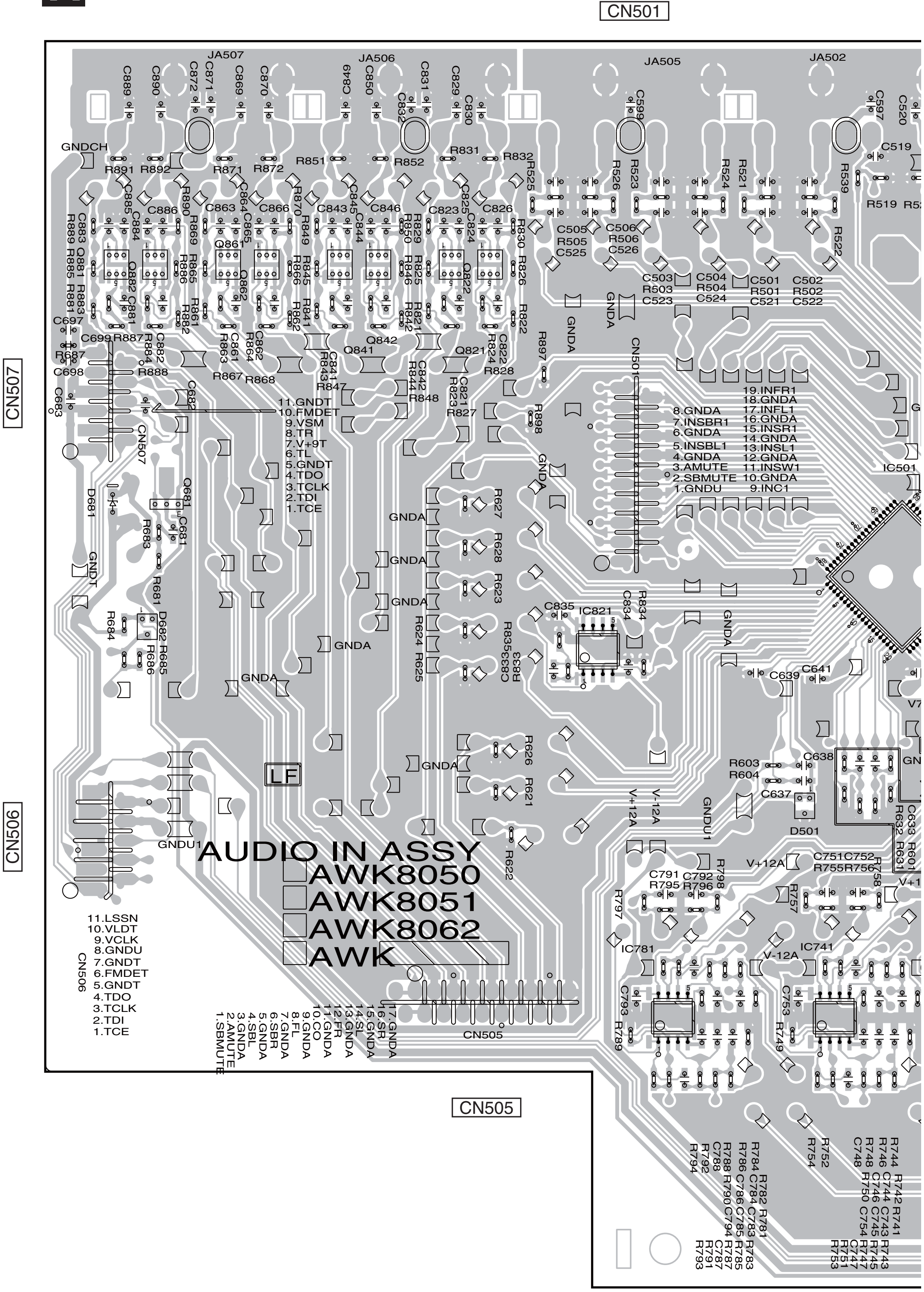

JA503
JA504
JA501
J456
J429
C558
C557
C550
C549
C548
C547
C552
C551
C554
C553
C556
C555
J409
C602
C601
JH1
J417
J418
J471
J478
J479
J475
J410
J414
J412
J411
J415
J413
J529
J437
J528
J438
J445
J527
J525
J440
CONTACT_SIDE
J424
J425
J426
J446
J420
J473
J442
J443
J474
J444
J431
J483
J421
15.GND_SG
14.GND_SG
13.GND_SG
12.GND_SG
11.GND_SG
10.GND_SG
9.GNDU
8.SIRIUS_TX
7.SIRIUS_RX
CN503
J422
C569
J510
C568
C562
J366
J367
J368
J434
J436
J427
J428
J509
C560
C561
J401
J423
J400
6.SIRIUS_RESET
5.GNDU
4.NC
3.MRVLDT
2.MRMUTE
1.GNDU
J433
C640
C642
J506
J507
J405
J404
J416
J369
J370
J581
J582
J583
C714
J585
J482
J584
C799
C713
LF
J371
JV457
JV458
C592
C591
C892
J481
J802
J701
J704
CN502
17.MICOUT
16.GNDA
15.FVR
14.GNDA
13.FVL
12.GNDA
J466
J465
C810
C809
C710
C770
C750
C709
C769
J801
J702
J703
J501
J503
J504
J505
J373
J372
C802
C801
J519
J520
C702
C701
C762
C761
C742
C741
11.V+7A
10.V-7A
9.GNDA
8.GNDA
7.GNDA
6.GNDA
5.V+12T
4.V+12A
3.V+12A
2.V-12A
1.V-12A
J521
J522
CN504
C901
1.RIN
2.VCOMGA
3.LIN
4.GNDAC
5.FRO
6.VCOMGF
7.FLO
8.GNDAC
9.SRO
10.GNDAC
11.SLO
12.GNDAC
13.SWO
14.GNDAC
15.CO
16.GNDAC
17.SBRO
18.GNDAC
19.SBLO
20.GNDAC
21.XMR
22.GVCOMX
23.XML
[[G]]
C7
UPPER SIDE IS CONTACT_SIDE
AUDI
AWK
AWK
AWK
AWK
E CN4805
CN503
E CN4806
CN502
CN504
E CN4804


SIDE A
C CN601
CN501
JA502
JA505
JA506
JA507
J376
C828
C827
C848
C847
C868
C867
C888
C887
C542
C541
C544
C543
C546
C545
C601
J409
JH1
J530
J531
CONTACT_SIDE
J454
J452
J385
J386
J387
J388
J389
J390
CN501
19
1
11.GNDT
10.FMDET
9.VSM
8.TR
7.V+9T
6.TL
5.GNDT
4.TDO
UPPERSIDE IS CONTACT_SIDE
CN507
To TUNER CN1
J565
J566
J567
J568
J569
J564
J561
J558
J560
J557
J392
J407
J391
J529
J528
J445
J527
J525
J440
J453
C627
J377
J447
J378
J459
J379
J449
J380
J450
J381
C628
C623
C624
C625
C684
3.TCLK
2.TDI
1.TCE
R682
J374
J408
J470
J428
J469
J435
C636
19.INFR1
18.GNDA
17.INFL1
16.GNDA
15.INSR1
14.GNDA
13.INSL1
12.GNDA
11.INSW1
10.GNDA
9.INC1
8.GNDA
7.INSBR1
6.GNDA
5.INSBL1
4.GNDA
3.AMUTE
2.SBMUTE
1.GNDU
J401
J403
J455
J375
J439
J468
C626
J382
J451
J383
C621
J394
J393
C622
J406
ICT
FC
LF
J467
J464
J578
J575
J576
J577
CN506
11.LSSN
10.VLDT
9.VCLK
8.GNDU
7.GNDT
6.FMDET
5.GNDT
4.TDO
3.TCLK
2.TDI
1.TCE
CN506
B CN110
PC
C892
J706
C750
C790
C789
C769
C749
J705
J707
17.GNDA
16.SR
15.GNDA
14.SL
13.GNDA
12.FR
11.GNDA
10.CO
9.GNDA
8.FL
7.GNDA
6.SBR
5.GNDA
4.SBL
3.GNDA
2.AMUTE
1.SBMUTE
CN505
17
1
CONTACT_SIDE
C742
C741
C782
C781
CN505
S CN6603
(ANP7644-B)
AUDIO IN ASSY
AWK8050
AWK8051
AWK8062
AWK

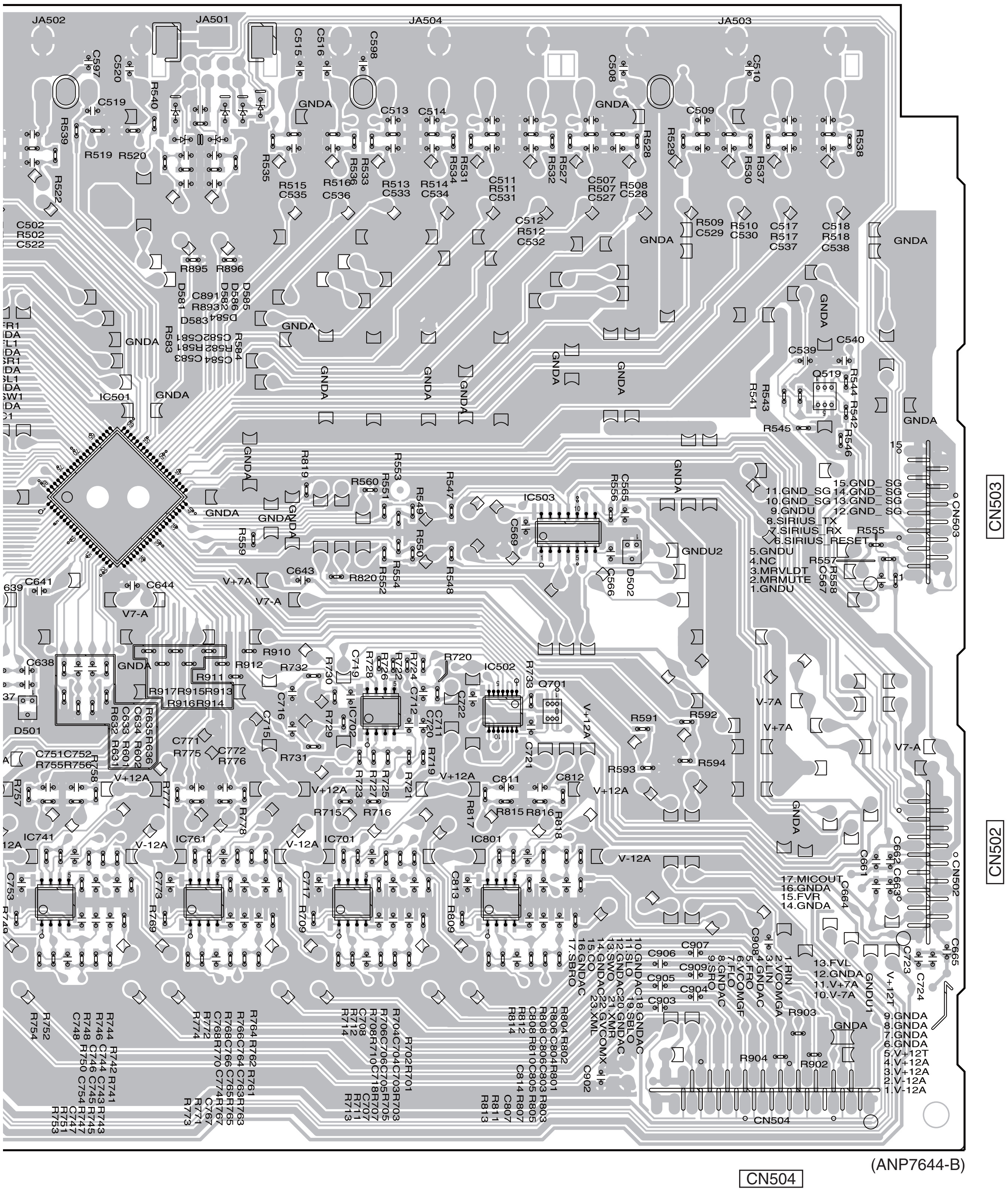
SIDE B

A AUDIO IN ASSY

IC Q
Q861
Q881 Q822
Q882
Q862
Q842 Q821
Q841
Q519
IC501
Q681
IC503
IC821
IC502 Q701
IC702
IC761
IC701 IC801
IC781 IC741


CN501
JA507
JA506
JA505
JA502
GNDCH
CN507
11.GNDT
10.FMDET
9.VSM
8.TR
7.V+9T
6.TL
5.GNDT
4.TDO
3.TCLK
2.TDI
1.TCE
8.GNDA
7.INSBR1
6.GNDA
5.INSBL1
4.GNDA
3.AMUTE
2.SBMUTE
1.GNDU
19.INFR1
18.GNDA
17.INFL1
16.GNDA
15.INSR1
14.GNDA
13.INSL1
12.GNDA
11.INSW1
10.GNDA
9.INC1
IC501
IC821
LF
CN506
11.LSSN
10.VLDT
9.VCLK
8.GNDU
7.GNDT
6.FMDET
5.GNDT
4.TDO
3.TCLK
2.TDI
1.TCE
AUDIO IN ASSY
AWK8050
AWK8051
AWK8062
AWK
17.GNDA
16.SR
15.GNDA
14.SL
13.GNDA
12.FR
11.GNDA
10.CO
9.GNDA
8.FL
7.GNDA
6.SBR
5.GNDA
4.SBL
3.GNDA
2.AMUTE
1.SBMUTE
CN505
IC781
IC741
V+12A
V-12A
GNDU1
GNDA
D501

SIDE B


JA502
JA501
JA504
JA503
C597
C520
R640
C515
C516
C598
C508
C510
C519
GNDA
C513
C514
C509
R539
R519
R520
R535
R536
R533
R534
R531
R532
R527
R528
R529
R530
R537
R538
R522
R515
C535
R516
C536
R513
C533
R514
C534
C511
R511
C531
C507
R507
C527
R508
C528
C502
R502
C522
C512
R512
C532
R509
C529
R510
C530
C517
R517
C537
C518
R518
C538
R895
R896
D581
D585
D586
D582
C891
R893
D584
D583
R583
C582
C581
R582
R581
R584
C583
C584
IC501
C539
C540
Q519
R541
R543
R544
R542
R545
R546
R819
R553
R560
R551
R547
R549
R550
R559
R554
R552
R548
C643
R820
IC503
C565
R556
C569
C566
D502
GNDU2
V+7A
V7-A
C641
C644
639
15.GND_ SG
14.GND_ SG
13.GND_ SG
12.GND_ SG
11.GND_SG
10.GND_SG
9.GNDU
8.SIRIUS_TX
7.SIRIUS_RX
6.SIRIUS_RESET
5.GNDU
4.NC
3.MRVLDT
2.MRMUTE
1.GNDU
R555
R557
R558
C567
CN503
C638
D501
R910
R912
R911
R917
R915
R913
R916
R914
R635
R636
C634
R602
C633
R601
R632
R603
R732
R730
C719
R728
R726
R722
R724
R720
IC502
R733
Q701
C716
C715
R729
IC702
C712
C711
C720
C722
C771
R775
C772
R776
R731
R591
R592
R593
R594
V-7A
V+7A
V+12A
C721
C751
C752
R755
R756
R758
R757
R777
R778
R723
R725
R727
R721
R719
C811
C812
R715
R716
R817
R815
R816
R818
IC741
IC761
IC701
IC801
V-12A
C753
C773
C717
C813
R749
R769
R709
R809
C661
C662
C663
C664
17.MICOUT
16.GNDA
15.FVR
14.GNDA
C665
C723
C724
V+12T
GNDU1
13.FVL
12.GNDA
11.V+7A
10.V-7A
1.RIN
2.VCOMGA
3.LIN
4.GNDAC
5.FRO
6.VCOMGF
7.FLO
8.GNDAC
9.SRO
10.GNDAC
11.SLO
12.GNDAC
13.SWO
14.GNDAC
15.CO
16.GNDAC
17.SBRO
18.GNDAC
19.SBLO
20.GNDAC
21.XMR
22.VCOMX
23.XML
C906
C907
C908
C909
C905
C904
C903
C902
R903
R904
R902
9.GNDA
8.GNDA
7.GNDA
6.GNDA
5.V+12T
4.V+12A
3.V+12A
2.V-12A
1.V-12A
CN504
CN502
R752
R754
R744
R742
R741
R746
C744
C743
R748
C746
C745
C748
R750
C754
R747
C747
R751
R753
R743
R745
R772
R774
R764
R762
R761
R766
C764
C763
R768
C766
C765
C768
R770
C774
R767
C767
R771
R773
R763
R765
R712
R714
C708
R704
C704
C703
R706
C706
C705
R708
R710
C718
R707
R702
R701
R703
R705
R711
R713
C707
R804
R802
R806
C804
R801
R808
C806
C803
R812
R810
C805
R814
C814
C808
R803
R805
R807
C807
R811
R813
(ANP7644-B)

CN504

A

11.2 MAIN ASSY

SIDE A

IC Q

IC1004
IC1001
IC1002
IC1271
IC1402
IC1401
IC1003
IC1205
IC1403
IC1404
IC1201
IC1202
IC1203 Q1201 Q1501
Q1503
Q1002 Q1407
Q1406
Q1001 Q1408
Q1405 Q1404
Q1504
Q1502
Q1202 Q1403
IC1006
Q102 Q101
Q103
IC101
IC1405 Q381 Q105
Q303 Q104
IC304 Q382
Q302 Q301
IC1005
IC302
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IC303 IC306
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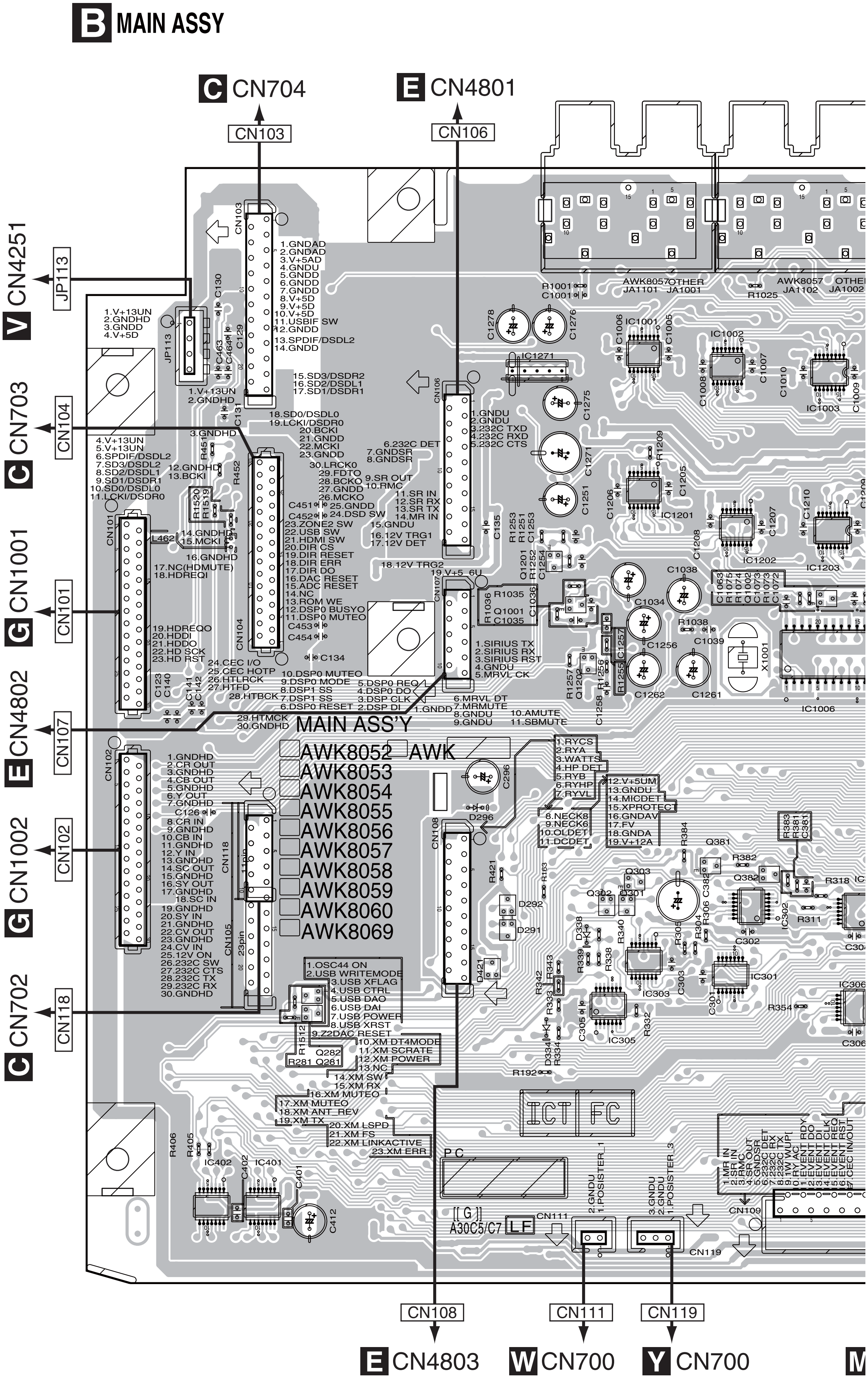
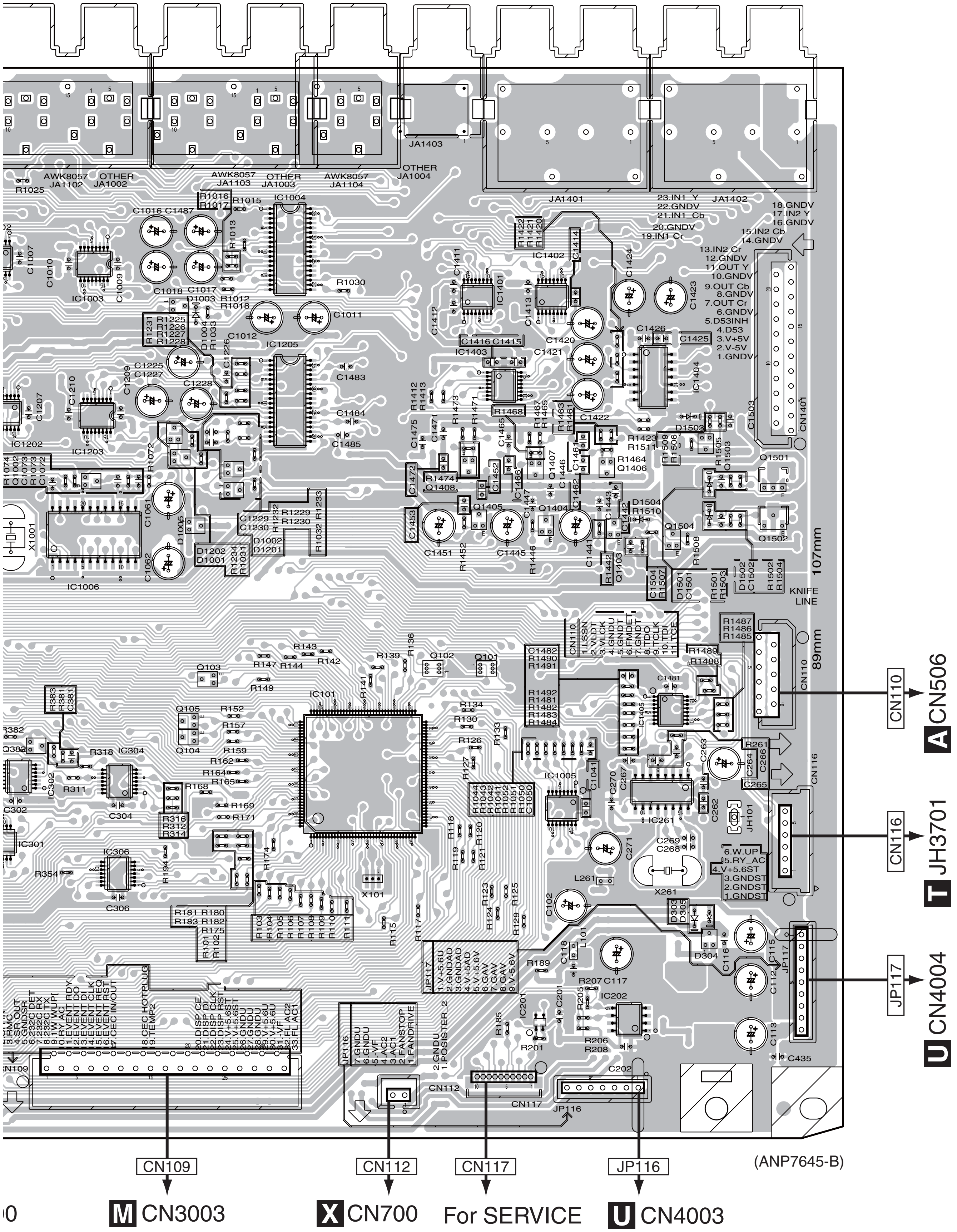
Q281
IC202
IC201
IC402 IC401



B MAIN ASSY
C CN704
CN103
E CN4801
CN106
V CN4251
JP113
C CN703
CN104
G CN1001
CN101
E CN4802
CN107
G CN1002
CN102
C CN702
CN118
1.GNDAD
2.GNDAD
3.V+5AD
4.GNDU
5.GNDD
6.GNDD
7.GNDD
8.V+5D
9.V+5D
10.V+5D
11.USBIF SW
12.GNDD
13.SPDIF/DSDL2
14.GNDD
15.SD3/DSDR2
16.SD2/DSDL1
17.SD1/DSDR1
18.SD0/DSDL0
19.LCKI/DSDR0
20.BCKI
21.GNDD
22.MCKI
23.GNDD
1.V+13UN
2.GNDHD
3.GNDD
4.V+5D
1.V+13UN
2.GNDHD
3.GNDHD
4.V+13UN
5.V+13UN
6.SPDIF/DSDL2
7.SD3/DSDL2
8.SD2/DSDL1
9.SD1/DSDR1
10.SD0/DSDL0
11.LCKI/DSDR0
12.GNDHD
13.BCKI
14.GNDHD
15.MCKI
16.GNDHD
17.NC(HDMUTE)
18.HDREQI
19.HDREQO
20.HDDI
21.HDDO
22.HD SCK
23.HD RST
24.CEC I/O
25.CEC HOTP
26.HTLRCK
27.HTFD
28.HTBCK
29.HTMCK
30.GNDHD
30.LRCK0
29.FDTO
28.BCKO
27.GNDD
26.MCKO
25.GNDD
24.DSD SW
23.ZONE2 SW
22.USB SW
21.HDMI SW
20.DIR CS
19.DIR RESET
18.DIR ERR
17.DIR DO
16.DAC RESET
15.ADC RESET
14.NC
13.ROM WE
12.DSP0 BUSYO
11.DSP0 MUTEO
10.DSP0 MUTEO
9.DSP0 MODE
8.DSP1 SS
7.DSP1 SS
6.DSP0 RESET
5.DSP0 REQ
4.DSP0 DO
3.DSP CLK
2.DSP DI
1.GNDD
6.232C DET
7.GNDSR
8.GNDSR
9.SR OUT
10.RMC
11.SR IN
12.SR RX
13.SR TX
14.MR IN
15.GNDU
16.12V TRG1
17.12V DET
18.12V TRG2
19.V+5_6U
1.GNDU
2.GNDU
3.232C TXD
4.232C RXD
5.232C CTS
1.SIRIUS TX
2.SIRIUS RX
3.SIRIUS RST
4.GNDU
5.MRVL CK
6.MRVL DT
7.MRMUTE
8.GNDU
9.GNDU
10.AMUTE
11.SBMUTE
MAIN ASS'Y
AWK8052 AWK
AWK8053
AWK8054
AWK8055
AWK8056
AWK8057
AWK8058
AWK8059
AWK8060
AWK8069
1.GNDHD
2.CR OUT
3.GNDHD
4.CB OUT
5.GNDHD
6.Y OUT
7.GNDHD
8.CR IN
9.GNDHD
10.CB IN
11.GNDHD
12.Y IN
13.GNDHD
14.SC OUT
15.GNDHD
16.SY OUT
17.GNDHD
18.SC IN
19.GNDHD
20.SY IN
21.GNDHD
22.CV OUT
23.GNDHD
24.CV IN
25.12V ON
26.232C SW
27.232C CTS
28.232C TX
29.232C RX
30.GNDHD
CN105
23pin
11pin
1.OSC44 ON
2.USB WRITEMODE
3.USB XFLAG
4.USB CTRL
5.USB DAO
6.USB DAI
7.USB POWER
8.USB XRST
9.Z2DAC RESET
10.XM DT4MODE
11.XM SCRATE
12.XM POWER
13.NC
14.XM SW
15.XM RX
16.XM MUTEO
17.XM MUTEO
18.XM ANT_REV
19.XM TX
20.XM LSPD
21.XM FS
22.XM LINKACTIVE
23.XM ERR
1.RYCS
2.RYA
3.WATTS
4.HP DET
5.RYB
6.RYHP
7.RYVL
8.NECK8
9.NECK6
10.OLDET
11.DCDET
12.V+5UM
13.GNDU
14.MICDET
15.XPROTECT
16.GNDAV
17.FV
18.GNDA
19.V+12A
CN108
AWK8057 JA1101
OTHER JA1001
AWK8057 JA1102
OTHER JA1002
IC1001
IC1002
IC1003
IC1271
IC1201
IC1202
IC1203
IC1006
X1001
Q1001
Q1201
Q1202
IC302
IC303
IC301
IC305
Q381
Q382
Q302
Q303
Q301
Q282
Q281
IC402
IC401
ICT
FC
PC
[[G]]
A30C5/C7
LF
CN111
2.GNDU
1.POSISTER_1
3.GNDU
2.GNDU
1.POSISTER_3
CN119
CN109
1.MR IN
2.SR IN
3.RMC
4.SR OUT
5.GNDSR
6.232C DET
7.232C RX
8.232C TX
9.IW VUPI
10.RY AC
11.EVENT RDY
12.EVENT DO
13.EVENT DI
14.EVENT CLK
15.EVENT REQ
16.EVENT RST
17.CEC IN/OUT
CN108
CN111
CN119
E CN4803
W CN700
Y CN700
M

SIDE A


AWK8057
JA1102
OTHER
JA1002
AWK8057
JA1103
OTHER
JA1003
AWK8057
JA1104
OTHER
JA1004
JA1403
JA1401
JA1402
23.IN1_Y
22.GNDV
21.IN1_Cb
20.GNDV
19.IN1 Cr
18.GNDV
17.IN2 Y
16.GNDV
15.IN2 Cb
14.GNDV
13.IN2 Cr
12.GNDV
11.OUT Y
10.GNDV
9.OUT Cb
8.GNDV
7.OUT Cr
6.GNDV
5.D53INH
4.D53
3.V+5V
2.V-5V
1.GNDV
CN1401
IC1003
IC1004
IC1205
IC1202
IC1203
IC1006
X1001
IC1401
IC1402
IC1403
IC1404
Q1501
Q1502
107mm
KNIFE LINE
89mm
CN110
1.LSSN
2.VLDT
3.VLCK
4.GNDU
5.GNDT
6.FMDET
7.GNDT
8.TDO
9.TCLK
10.TDI
11.TCE
IC1405
IC101
IC1005
IC261
IC304
IC302
IC301
IC306
X101
X261
JH101
CN116
6.W.UP
5.RY_AC
4.V+5.6ST
3.GNDST
2.GNDST
1.GNDST
JP117
1.V+5.6U
2.GNDAD
3.GNDAD
4.V+5AD
5.V+5.6V
6.GAV
7.GAV
8.GAV
9.V-5.6V
IC202
CN109
1.RMC
4.SR OUT
5.GNDST
7.232C DET
8.232C RX
9.1W WUP
10.RY AC
1.EVENT RDY
2.EVENT DO
3.EVENT DI
4.EVENT CLK
5.EVENT REQ
6.EVENT RST
7.CEC IN/OUT
8.CEC HOTPLUG
9.TEMP2
20.DISP CE
21.DISP DO
22.DISP CLK
23.DISP RST
24.V+5.6ST
25.V+5.6ST
26.GNDU
27.GNDU
28.GNDU
29.V+5.6U
30.V+5.6U
31.-VF
32.FL AC2
33.FL AC1
JP116
7.GNDU
6.GNDU
5.-VF
4.AC2
3.AC1
2.FANSTOP
1.FANDRIVE
2.GNDU
1.POSISTER_2
CN112
CN117
JP116
(ANP7645-B)
CN110
A CN506
CN116
T JH3701
JP117
U CN4004
CN109
M CN3003
CN112
X CN700
CN117
For SERVICE
JP116
U CN4003

SIDE B

A

B MAIN ASSY

IC	Q
	Q1277
	Q1278
	Q1271
	Q1508
	Q1510 Q1506
	Q411
	Q1507
	Q1509 Q1505

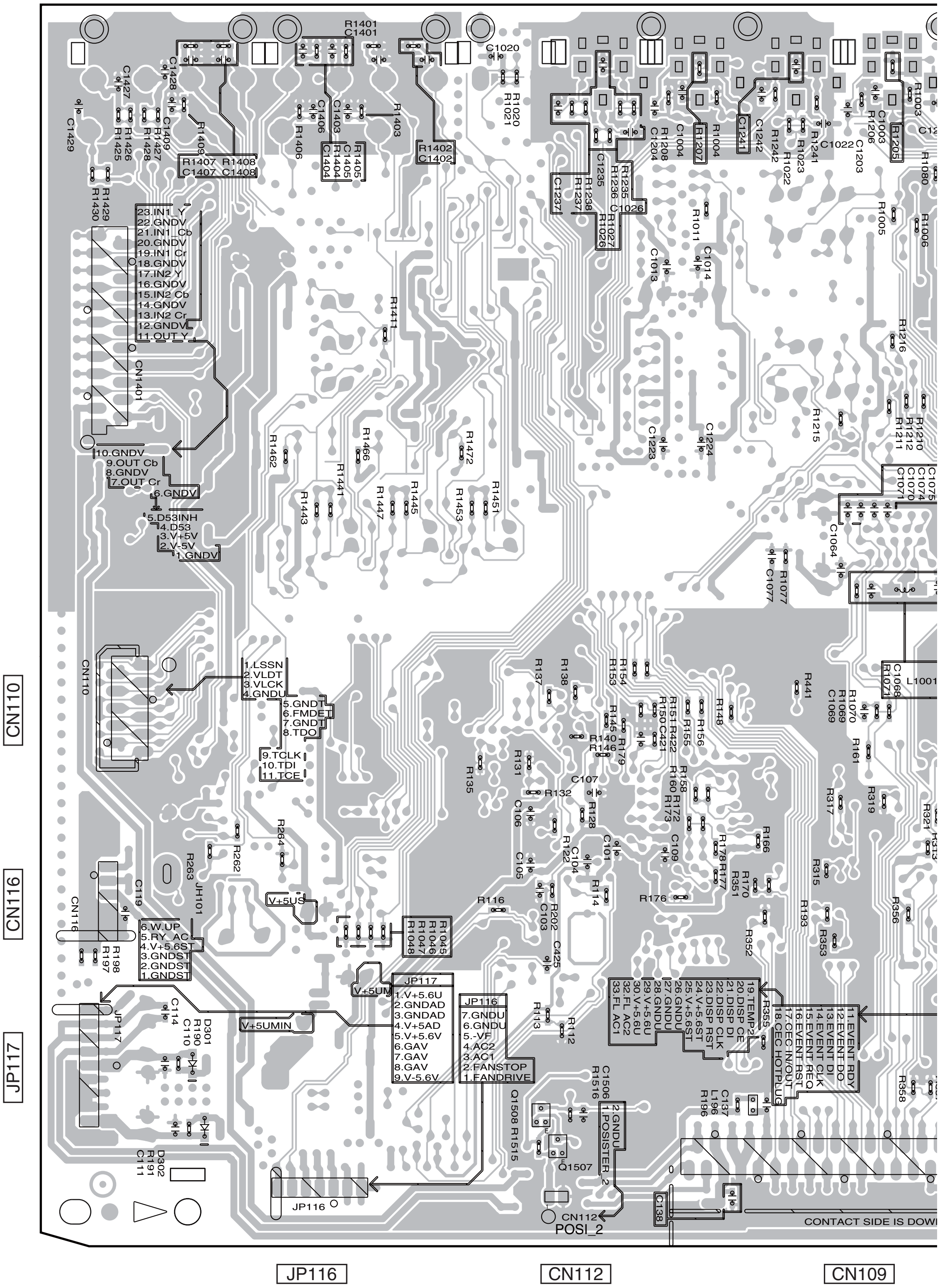
B

C

D

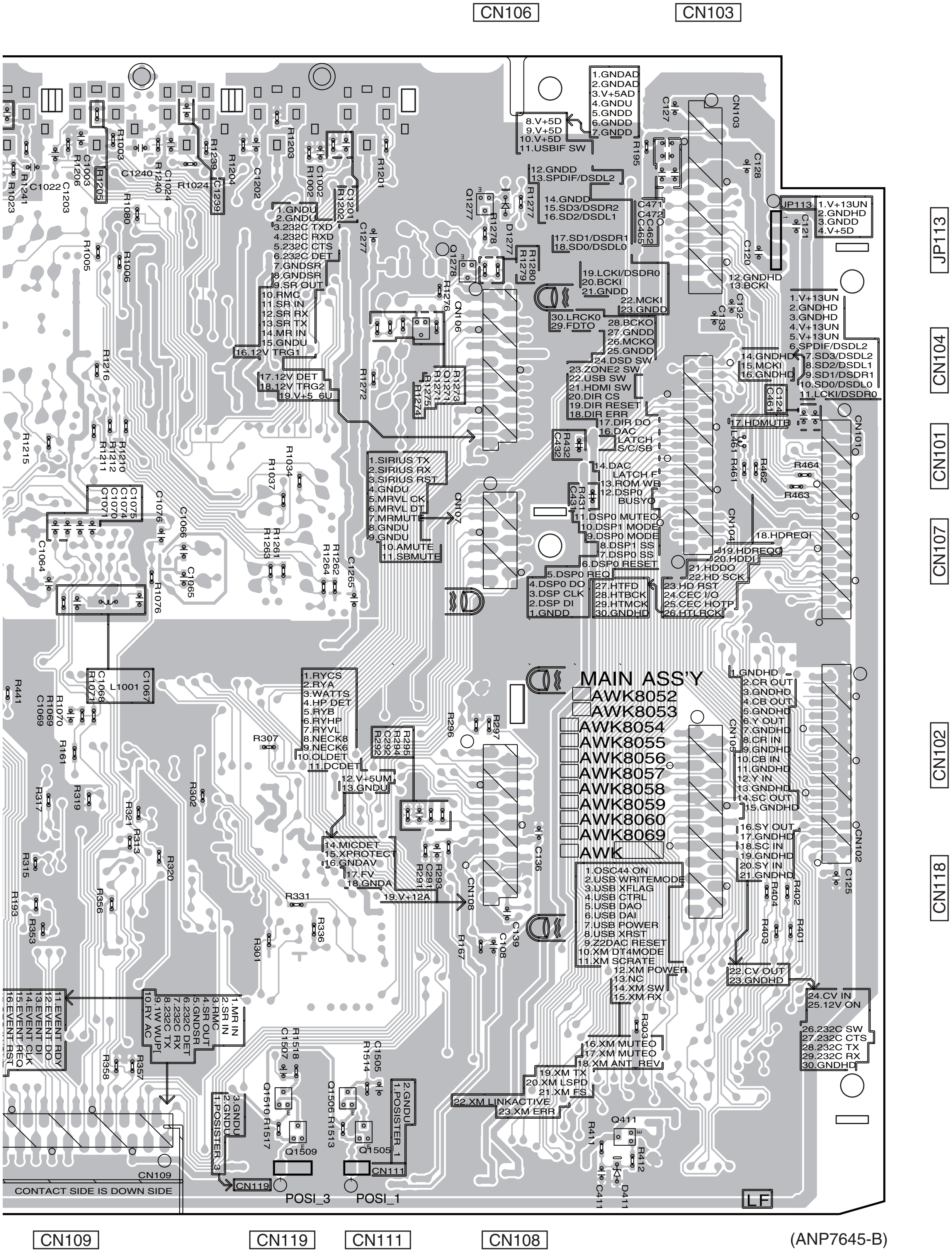
E

F


CN1401
23.IN1_Y
22.GNDV
21.IN1_Cb
20.GNDV
19.IN1 Cr
18.GNDV
17.IN2 Y
16.GNDV
15.IN2 Cb
14.GNDV
13.IN2 Cr
12.GNDV
11.OUT Y
10.GNDV
9.OUT Cb
8.GNDV
7.OUT Cr
6.GNDV
5.D53INH
4.D53
3.V+5V
2.V-5V
1.GNDV
CN110
1.LSSN
2.VLDT
3.VLCK
4.GNDU
5.GNDT
6.FMDET
7.GNDT
8.TDO
9.TCLK
10.TDI
11.TCE
CN116
6.W.UP
5.RY_AC
4.V+5.6ST
3.GNDST
2.GNDST
1.GNDST
JP117
1.V+5.6U
2.GNDAD
3.GNDAD
4.V+5AD
5.V+5.6V
6.GAV
7.GAV
8.GAV
9.V-5.6V
JP116
7.GNDU
6.GNDU
5.-VF
4.AC2
3.AC1
2.FANSTOP
1.FANDRIVE
V+5US
V+5UM
V+5UMIN
33.FL AC1
32.FL AC2
31.V-5.6U
30.V+5.6U
29.V+5.6U
28.GNDU
27.GNDU
26.GNDU
25.V+5.6ST
24.V+5.6ST
23.DISP RST
22.DISP CLK
21.DISP DI
20.DISP CE
19.TEMP2
18.CEC HOTPLUG
17.CEC IN/OUT
16.EVENT RST
15.EVENT REQ
14.EVENT CLK
13.EVENT DI
12.EVENT DO
11.EVENT RDY
2.GNDU
1.POSISTER
POSI_2
CN112
CN109
C138
L1001
CONTACT SIDE IS DOWN
JP116
CN112
CN109

SIDE B

A



CN106
CN103
JP113
CN104
CN101
CN107
CN102
CN118
CN109
CN119
CN111
CN108
MAIN ASS'Y
AWK8052
AWK8053
AWK8054
AWK8055
AWK8056
AWK8057
AWK8058
AWK8059
AWK8060
AWK8069
AWK
1.GNDAD
2.GNDAD
3.V+5AD
4.GNDU
5.GNDD
6.GNDD
7.GNDD
8.V+5D
9.V+5D
10.V+5D
11.USBIF SW
12.GNDD
13.SPDIF/DSDL2
14.GNDD
15.SD3/DSDR2
16.SD2/DSDL1
17.SD1/DSDR1
18.SD0/DSDL0
19.LCKI/DSDR0
20.BCKI
21.GNDD
22.MCKI
23.GNDD
30.LRCK0
29.FDTO
28.BCKO
27.GNDD
26.MCKO
25.GNDD
24.DSD SW
1.V+13UN
2.GNDHD
3.GNDD
4.V+5D
12.GNDHD
13.BCKI
1.V+13UN
2.GNDHD
3.GNDHD
4.V+13UN
5.V+13UN
6.SPDIF/DSDL2
7.SD3/DSDL2
8.SD2/DSDL1
9.SD1/DSDR1
10.SD0/DSDL0
11.LCKI/DSDR0
14.GNDHD
15.MCKI
16.GNDHD
17.HDMUTE
1.GNDU
2.GNDU
3.232C TXD
4.232C RXD
5.232C CTS
6.232C DET
7.GNDSR
8.GNDSR
9.SR OUT
10.RMC
11.SR IN
12.SR RX
13.SR TX
14.MR IN
15.GNDU
16.12V TRG1
17.12V DET
18.12V TRG2
19.V+5 6U
23.ZONE2 SW
22.USB SW
21.HDMI SW
20.DIR CS
19.DIR RESET
18.DIR ERR
17.DIR DO
16.DAC LATCH S/C/SB
14.DAC LATCH F
13.ROM WE
12.DSP0 BUSYO
11.DSP0 MUTEO
10.DSP1 MODE
9.DSP0 MODE
8.DSP1 SS
7.DSP0 SS
6.DSP0 RESET
5.DSP0 REQ
4.DSP0 DO
3.DSP CLK
2.DSP DI
1.GNDD
27.HTFD
28.HTBCK
29.HTMCK
30.GNDHD
23.HD RST
24.CEC I/O
25.CEC HOTP
26.HTLRCK
22.HD SCK
21.HDDO
20.HDDI
19.HDREQO
18.HDREQI
1.SIRIUS TX
2.SIRIUS RX
3.SIRIUS RST
4.GNDU
5.MRVL CK
6.MRVL DT
7.MRMUTE
8.GNDU
9.GNDU
10.AMUTE
11.SBMUTE
1.RYCS
2.RYA
3.WATTS
4.HP DET
5.RYB
6.RYHP
7.RYVL
8.NECK8
9.NECK6
10.OLDET
11.DCDET
12.V+5UM
13.GNDU
14.MICDET
15.XPROTECT
16.GNDAV
17.FV
18.GNDA
19.V+12A
1.GNDHD
2.CR OUT
3.GNDHD
4.CB OUT
5.GNDHD
6.Y OUT
7.GNDHD
8.CR IN
9.GNDHD
10.CB IN
11.GNDHD
12.Y IN
13.GNDHD
14.SC OUT
15.GNDHD
16.SY OUT
17.GNDHD
18.SC IN
19.GNDHD
20.SY IN
21.GNDHD
22.CV OUT
23.GNDHD
24.CV IN
25.12V ON
26.232C SW
27.232C CTS
28.232C TX
29.232C RX
30.GNDHD
1.OSC44 ON
2.USB WRITEMODE
3.USB XFLAG
4.USB CTRL
5.USB DAO
6.USB DAI
7.USB POWER
8.USB XRST
9.Z2DAC RESET
10.XM DT4MODE
11.XM SCRATE
12.XM POWER
13.NC
14.XM SW
15.XM RX
16.XM MUTEO
17.XM MUTEO
18.XM ANT_REV
19.XM TX
20.XM LSPD
21.XM FS
22.XM LINKACTIVE
23.XM ERR
1.MR IN
2.SR IN
3.RMC
4.SR OUT
5.GNDSR
6.232C DET
7.232C RX
8.232C TX
9.1W WUPI
10.RY AC
11.EVENT RDY
12.EVENT DO
13.EVENT DI
14.EVENT CLK
15.EVENT REQ
16.EVENT RST
1.POSISTER_1
2.GNDU
1.POSISTER_3
2.GNDU
3.GNDU
POSI_3
POSI_1
CONTACT SIDE IS DOWN SIDE
LF
L1001
Q1277
Q1278
Q1505
Q1506
Q1509
Q1510
Q411
D1277
D411
C411
R411
R412
R1215
R1216
R1034
R1037
R441
R307
R302
R296
R297
R331
R336
R301
R167
R303
C108
C136
C139
C125
C128
C127
C120
C121
C132
C133
C461
C124
C431
C432
R431
R432
R461
R462
R463
R464
R401
R402
R403
R404
R195

B

C

D

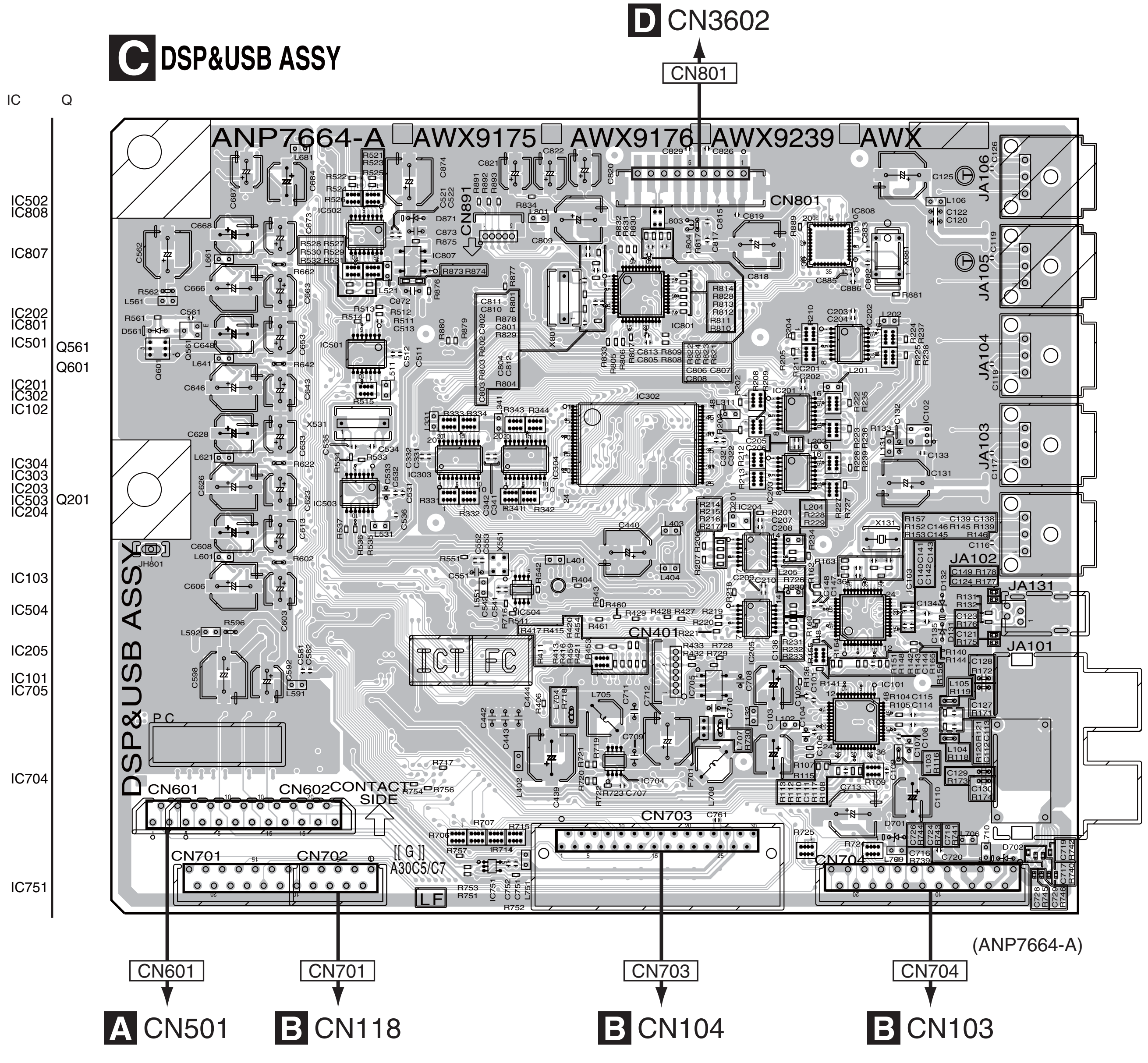
E

F

(ANP7645-B)

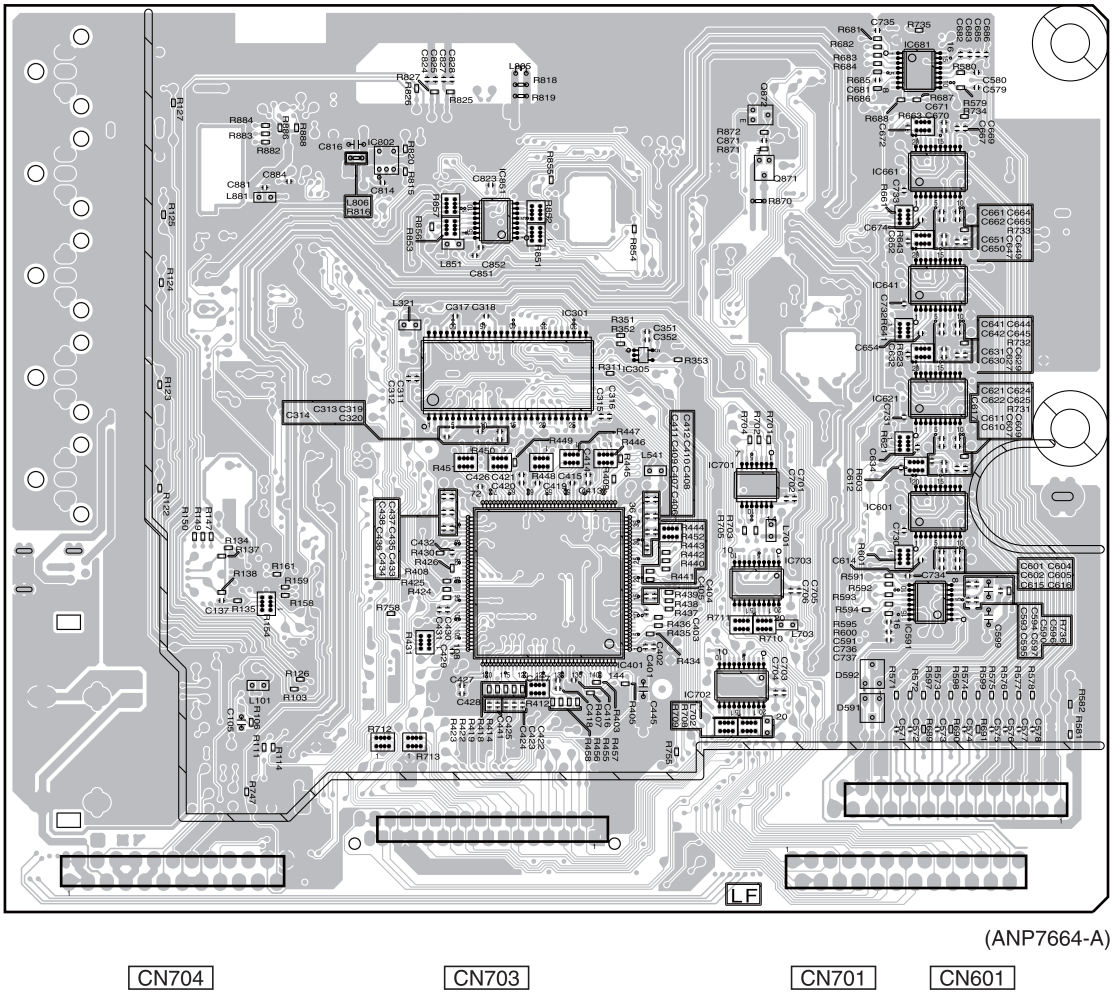
11.3 DSP & USB ASSY

SIDE A **SIDE A**


C DSP&USB ASSY
D CN3602
CN801
IC
Q
IC502
IC808
IC807
IC202
IC801
IC501
Q561
Q601
IC201
IC302
IC102
IC304
IC303
IC203
IC503
IC204
Q201
IC103
IC504
IC205
IC101
IC705
IC704
IC751
ANP7664-A AWX9175 AWX9176 AWX9239 AWX
CN801
CN891
IC302
IC801
IC808
JA106
JA105
JA104
JA103
JA102
JA131
JA101
X531
X131
CN401
ICT
FC
DSP&USB ASSY
PC
CN601
CN602
CONTACT SIDE
CN701
CN702
[[G]]
A30C5/C7
LF
CN703
CN704
(ANP7664-A)
CN601
CN701
CN703
CN704
A CN501
B CN118
B CN104
B CN103

C DSP&USB ASSY

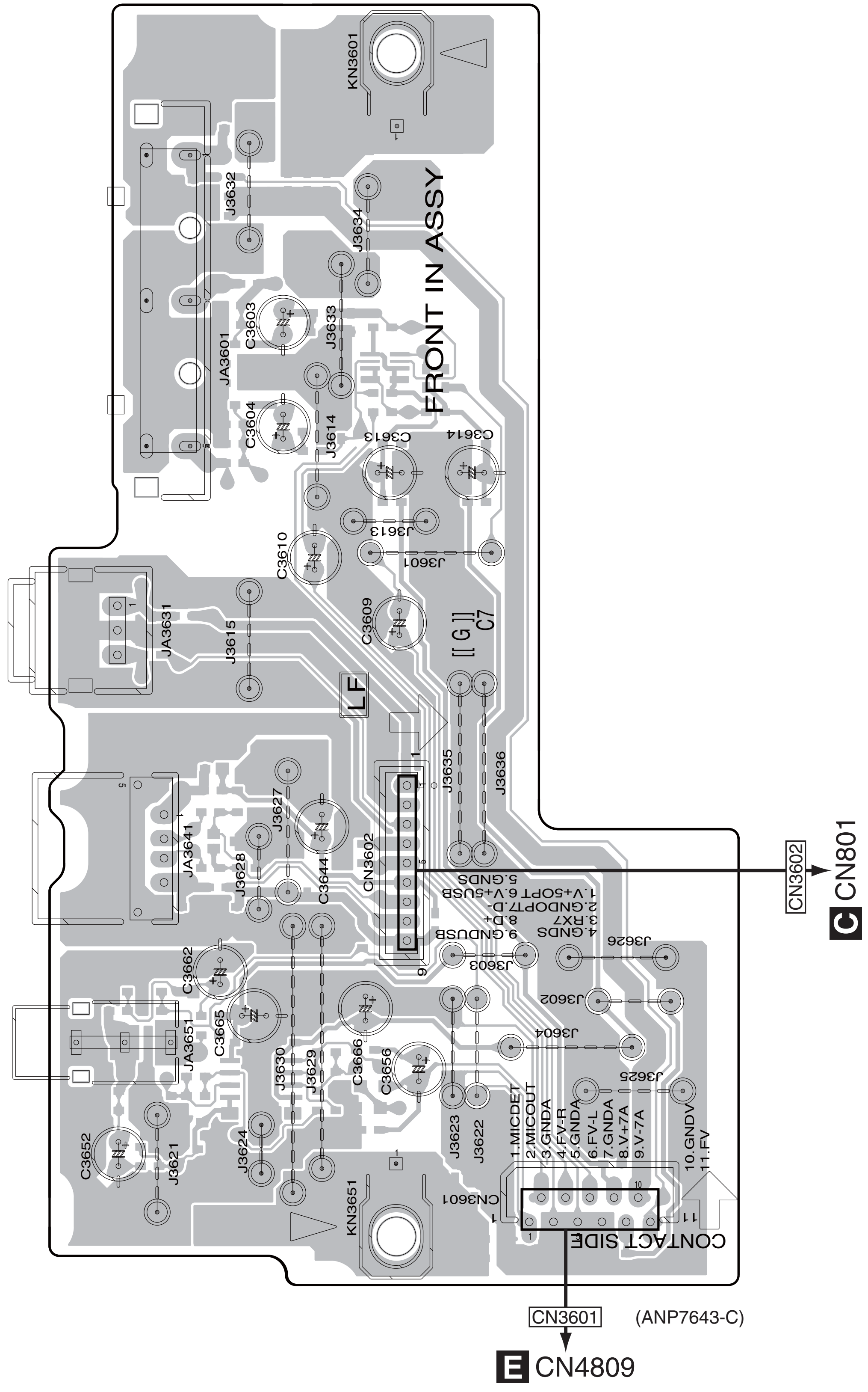
IC	Q
IC681	
	Q872
IC802	
IC661	
IC851	Q871
IC641	
IC301	
IC305	
IC621	
IC701	
IC601	
IC703	
IC591	
IC401	
IC702	


IC681
Q872
IC802
IC851
Q871
IC661
IC641
IC301
IC305
IC621
IC701
IC601
IC703
IC591
IC401
IC702
LF
(ANP7664-A)
CN704
CN703
CN701
CN601

11.4 FRONT IN ASSY

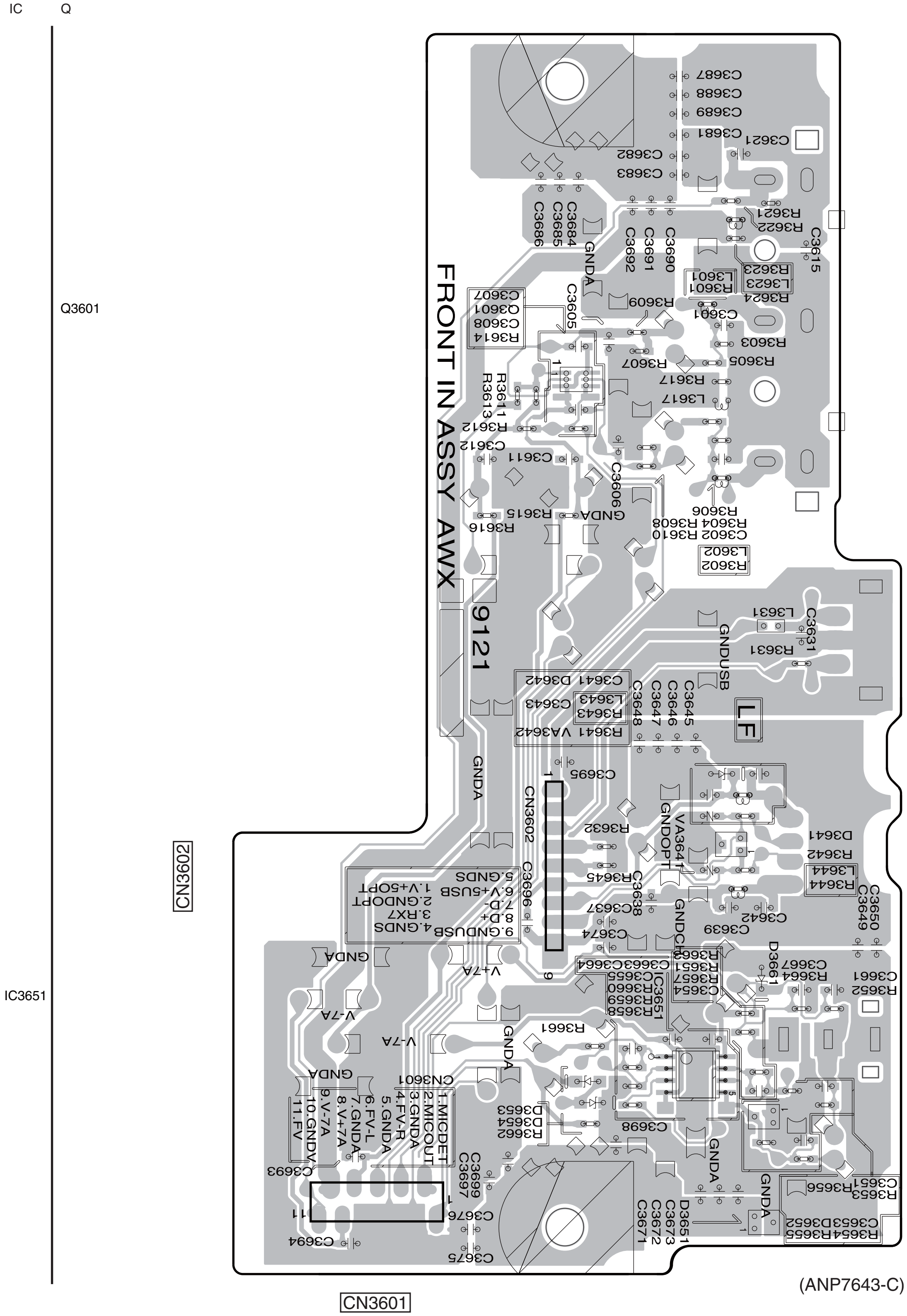
SIDE A **SIDE A**

D FRONT IN ASSY


KN3601
FRONT IN ASSY
J3632
J3634
J3633
C3603
JA3601
C3604
J3614
C3613
C3614
J3613
J3601
C3610
C3609
[[G]]
C7
JA3631
J3615
LF
J3635
J3636
J3627
JA3641
J3628
C3644
CN3602
5.GNDS
1.V+5OPT 6.V+5USB
2.GNDOPT 7.D-
3.RX7 8.D+
4.GNDS 9.GNDUSB
J3603
J3626
J3602
J3604
J3625
C3662
C3665
JA3651
J3630
J3629
C3666
C3656
J3623
J3622
1.MICDET
2.MICOUT
3.GNDA
4.FV-R
5.GNDA
6.FV-L
7.GNDA
8.V+7A
9.V-7A
10.GNDV
11.FV
C3652
J3621
J3624
KN3651
CN3601
CONTACT SIDE
CN3602
C CN801
CN3601
E CN4809
(ANP7643-C)

SIDE B **SIDE B**

D FRONT IN ASSY

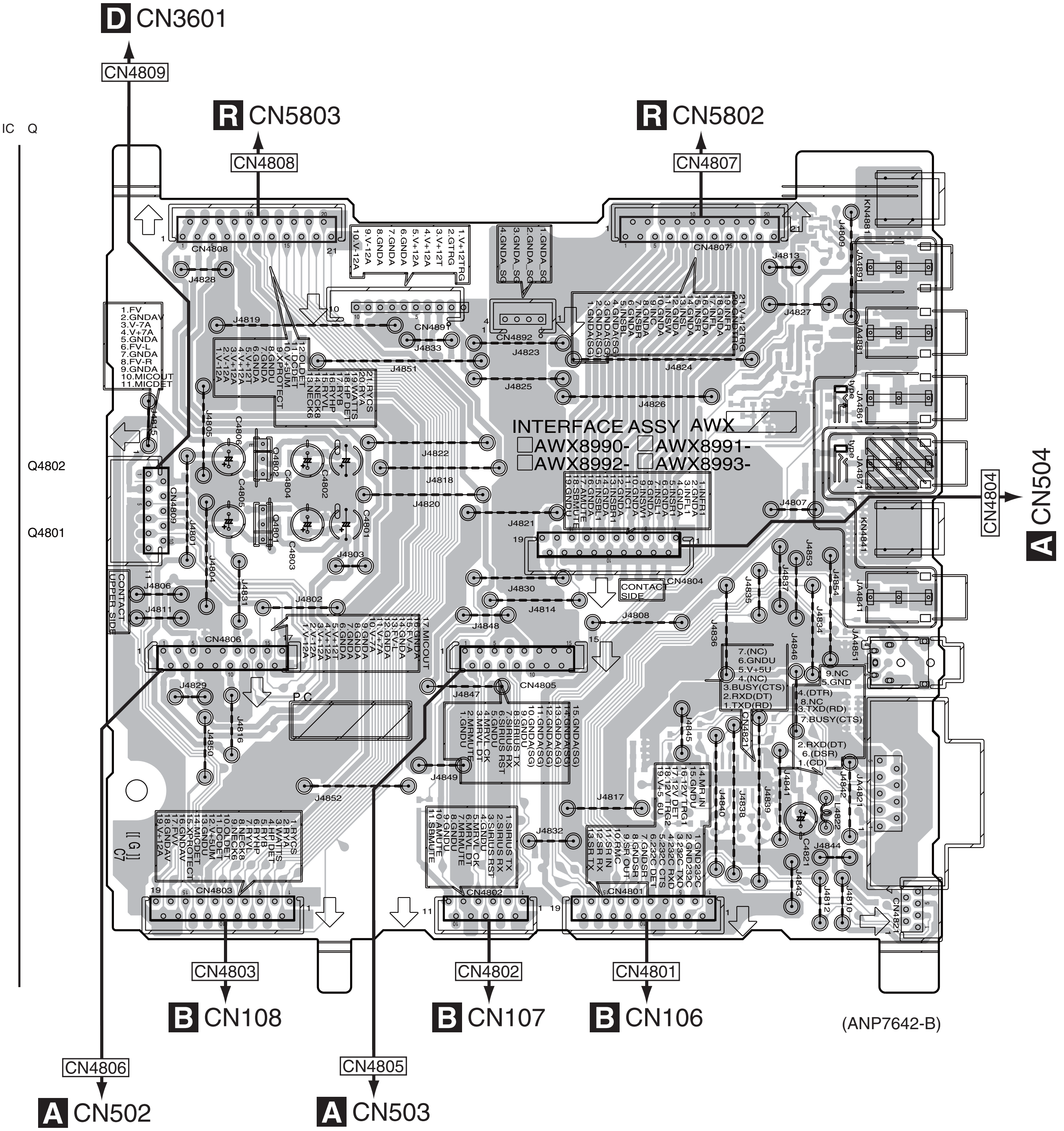

IC
Q
Q3601
IC3651
CN3602
FRONT IN ASSY AWX
9121
LF
C3687
C3688
C3689
C3681
C3621
C3682
C3683
R3621
R3622
C3684
C3685
C3686
GNDA
C3692
C3691
C3690
C3615
L3623
R3623
R3624
L3601
R3601
C3605
R3609
C3601
C3607
Q3601
C3608
R3614
R3603
R3605
R3607
R3617
R3611
R3613
L3617
R3612
C3612
C3611
C3606
R3615
GNDA
R3616
R3606
R3604 R3608
C3602 R3610
L3602
R3602
L3631
C3631
GNDUSB
R3631
C3641 D3642
C3643
L3643
R3643
C3648
C3647
C3646
C3645
R3641 VA3642
C3695
CN3602
GNDA
R3632
VA3641
GNDOPT
D3641
R3642
L3644
R3644
C3650
C3649
C3696
1.V+5OPT
2.GNDOPT
3.RX7
4.GNDS
5.GNDS
6.V+5USB
7.D-
8.D+
9.GNDUSB
R3645
C3638
C3637
C3642
C3639
GNDCN
C3674
D3661
C3667
R3664
C3661
R3652
C3664 C3663
C3657
R3651
C3654
C3655
IC3651
R3660
R3659
R3658
GNDA
V+7A
V-7A
V-7A
R3661
GNDA
CN3601
1.MICDET
2.MICOUT
3.GNDA
4.FV-R
5.GNDA
6.FV-L
7.GNDA
8.V+7A
9.V-7A
10.GNDV
11.FV
GNDA
D3653
D3654
R3662
C3698
C3699
C3697
C3693
C3676
C3694
C3675
D3651
C3673
C3672
C3671
GNDA
GNDA
C3651
R3653
R3656
C3653 D3652
R3654 R3655
CN3601

(ANP7643-C)

11.5 INTERFACE ASSY

SIDE A **SIDE A**

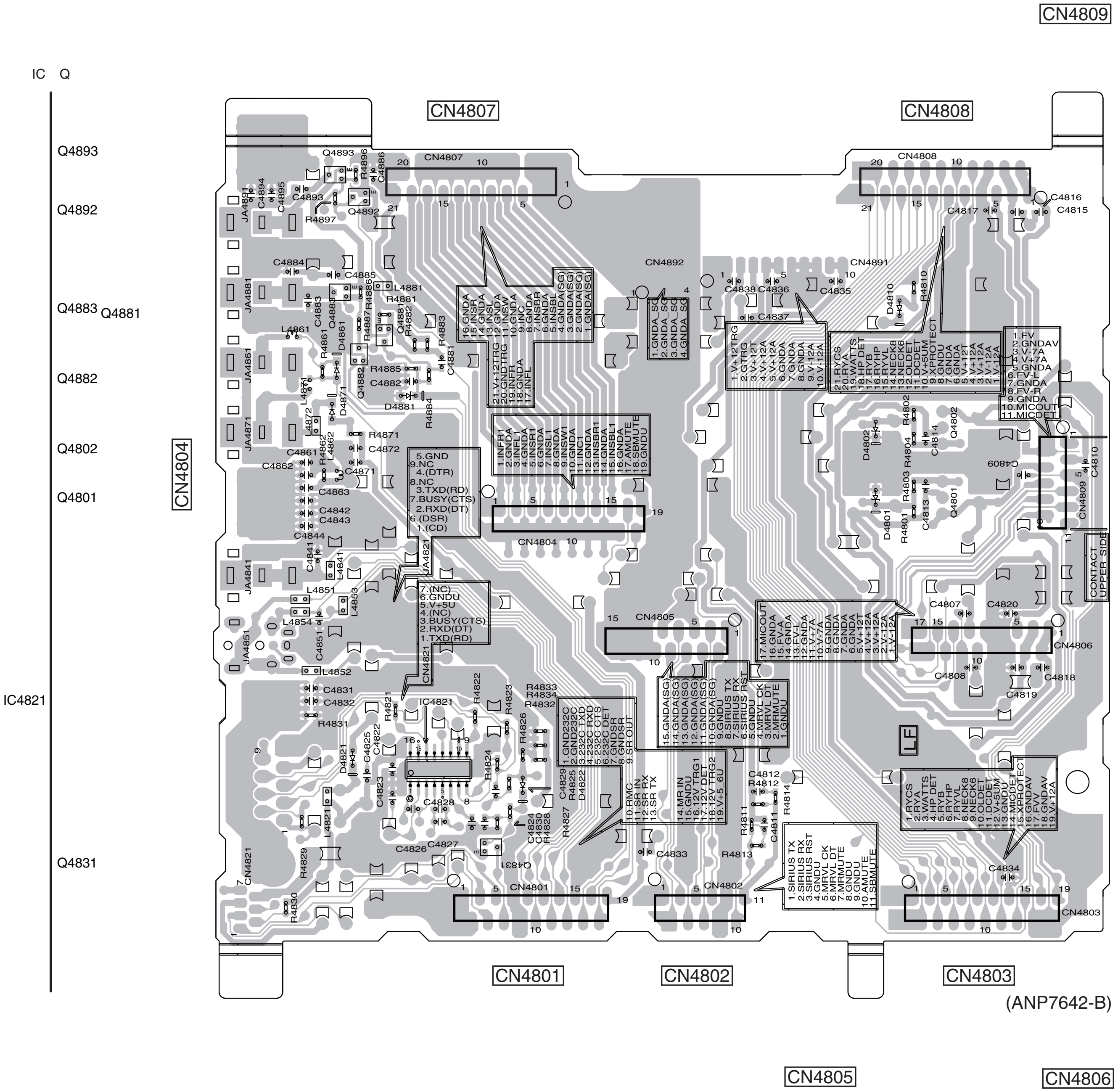
E INTERFACE ASSY


D CN3601
CN4809
R CN5803
CN4808
R CN5802
CN4807
IC Q
Q4802
Q4801
INTERFACE ASSY AWX
AWX8990-
AWX8991-
AWX8992-
AWX8993-
CN4804
A CN504
CN4892
CN4891
CN4806
CN4805
CN4803
CN4802
CN4801
CN4821
KN4881
JA4891
JA4881
JA4861
JA4871
KN4841
JA4841
JA4851
JA4821
CONTACT UPPER SIDE
CONTACT SIDE
PC
CN4803
B CN108
CN4802
B CN107
CN4801
B CN106
(ANP7642-B)
CN4806
A CN502
CN4805
A CN503

SIDE B **SIDE B**

A

E INTERFACE ASSY


CN4809
IC Q
Q4893
Q4892
Q4883 Q4881
Q4882
Q4802
Q4801
IC4821
Q4831
CN4804
CN4807
CN4808
CN4892
CN4891
CN4805
CN4806
CN4801
CN4802
CN4803
IC4821
LF
CONTACT UPPER SIDE
16.GNDA
15.INSR
14.GNDA
13.INSL
12.GNDA
11.INSW
10.GNDA
9.NC
8.GNDA
7.INSBR
6.GNDA
5.INSBL
4.GNDA(SG)
3.GNDA(SG)
2.GNDA(SG)
1.GNDA(SG)
21.V+12TRG
20.GNDTRG
19.INFR
18.GNDA
17.INFL
1.GNDA_SG
2.GNDA_SG
3.GNDA_SG
4.GNDA_SG
1.V+12TRG
2.GTRG
3.V+12T
4.V+12A
5.V+12A
6.GNDA
7.GNDA
8.GNDA
9.V-12A
10.V-12A
21.RYCS
20.RYA
19.WATTS
18.HP DET
17.RYB
16.RYHP
15.RYVL
14.NECK8
13.NECK6
12.OLDET
11.DCDET
10.V+5UM
9.XPROTECT
8.GNDU
7.GNDA
6.GNDA
5.V+12T
4.V+12A
3.V+12A
2.V-12A
1.V-12A
1.FV
2.GNDAV
3.V-7A
4.V+7A
5.GNDA
6.FV-L
7.GNDA
8.FV-R
9.GNDA
10.MICOUT
11.MICDET
1.INFR1
2.GNDA
3.INFL1
4.GNDA
5.INSR1
6.GNDA
7.INSL1
8.GNDA
9.INSW1
10.GNDA
11.INC1
12.GNDA
13.INSBR1
14.GNDA
15.INSBL1
16.GNDA
17.AMUTE
18.SBMUTE
19.GNDU
5.GND
9.NC
4.(DTR)
8.NC
3.TXD(RD)
7.BUSY(CTS)
2.RXD(DT)
6.(DSR)
1.(CD)
7.(NC)
6.GNDU
5.V+5U
4.(NC)
3.BUSY(CTS)
2.RXD(DT)
1.TXD(RD)
17.MICOUT
16.GNDA
15.FV-A
14.GNDA
13.FV-L
12.GNDA
11.V-7A
10.V+7A
9.GNDA
8.GNDA
7.GNDA
6.GNDA
5.V+12T
4.V+12A
3.V+12A
2.V-12A
1.V-12A
15.GNDA(SG)
14.GNDA(SG)
13.GNDA(SG)
12.GNDA(SG)
11.GNDA(SG)
10.GNDA(SG)
9.GNDU
8.SIRIUS TX
7.SIRIUS RST
6.GNDU
5.GNDU
4.MRVL CK
3.MRVL DT
2.MRMUTE
1.GNDU
1.GND232C
2.GND232C
3.232C TXD
4.232C RXD
5.232C CTS
6.232C DET
7.GNDSR
8.GNDSR
9.SR OUT
10.RMC
11.SR IN
12.SR RX
13.SR TX
14.MR IN
15.GNDU
16.12V TRG1
17.12V DET
18.12V TRG2
19.V+5.6U
1.SIRIUS TX
2.SIRIUS RX
3.SIRIUS RST
4.GNDU
5.MRVL CK
6.MRVL DT
7.MRMUTE
8.GNDU
9.GNDU
10.AMUTE
11.SBMUTE
1.RYCS
2.RYA
3.WATTS
4.HP DET
5.RYB
6.RYHP
7.RYVL
8.NECK8
9.NECK6
10.OLDET
11.DCDET
12.V+5UM
13.GNDU
14.MICDET
15.XPROTECT
16.GNDU
17.FV
18.GNDAV
19.V+12A
Q4893
R4896
C4886
C4894
C4895
JA4891
C4893
R4897
Q4892
C4884
C4885
JA4881
C4883
Q4883
R4886
R4887
Q4881
L4881
R4881
R4882
R4883
C4881
L4861
R4861
D4861
Q4882
R4885
C4882
D4881
R4884
JA4861
L4871
D4871
L4872
R4862
JA4871
R4871
C4872
C4861
C4862
C4871
C4863
C4842
C4843
C4844
C4841
L4841
JA4841
JA4821
L4851
L4853
L4854
JA4851
C4851
L4852
C4831
C4832
R4831
R4821
C4822
C4825
D4821
C4823
L4821
R4829
CN4821
R4830
R4822
R4823
R4833
R4834
R4832
R4826
R4824
C4828
C4826
C4827
Q4831
C4829
R4825
D4822
C4824
C4821
R4828
R4827
C4838
C4836
C4837
C4835
D4810
R4810
C4817
C4816
C4815
R4802
D4802
R4804
C4814
Q4802
C4809
C4810
D4801
R4801
R4803
C4813
Q4801
C4807
C4820
C4808
C4818
C4819
C4812
R4812
R4811
C4811
R4814
R4813
C4833
C4834
(ANP7642-B)

B

C

D

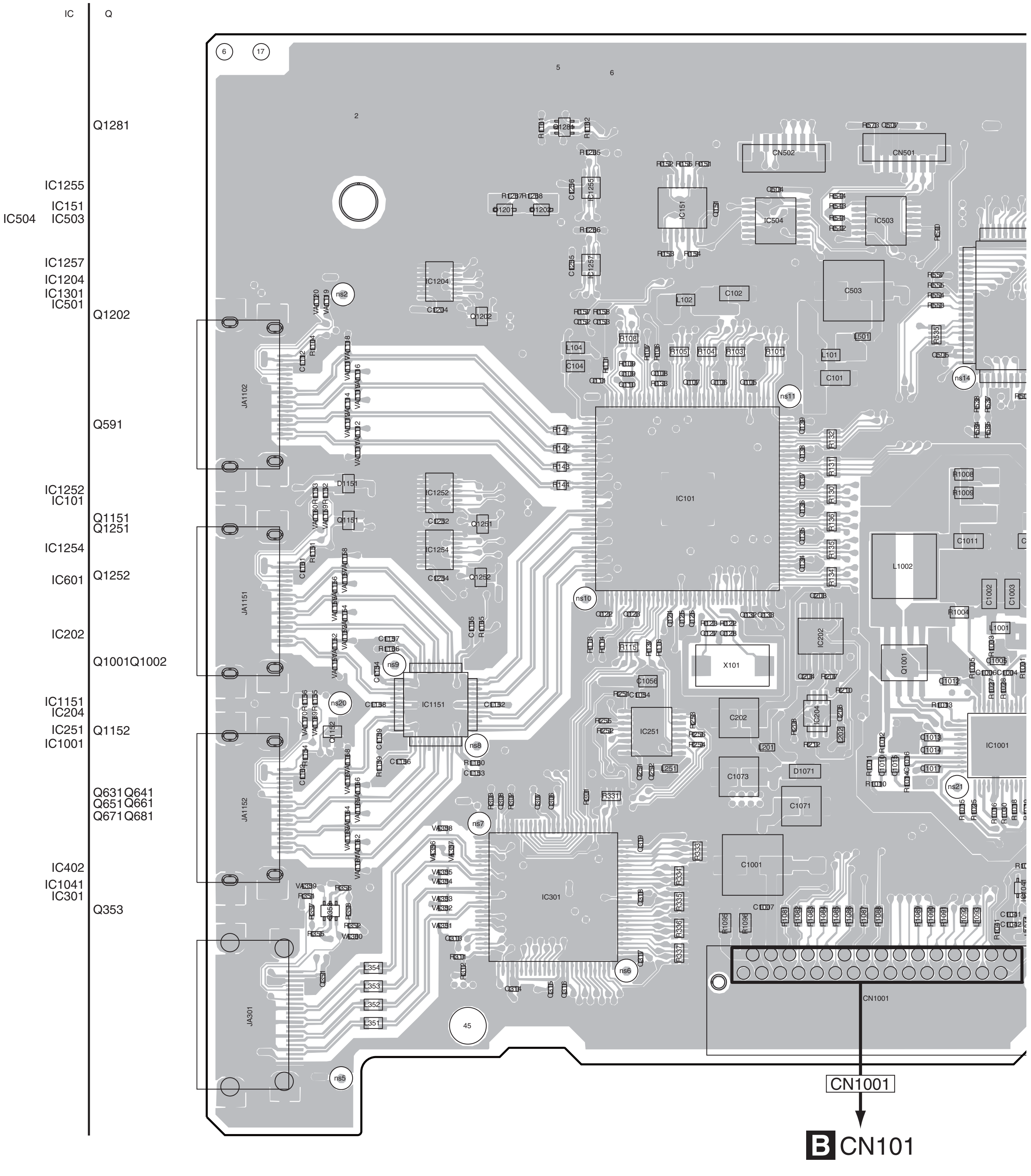
E

F

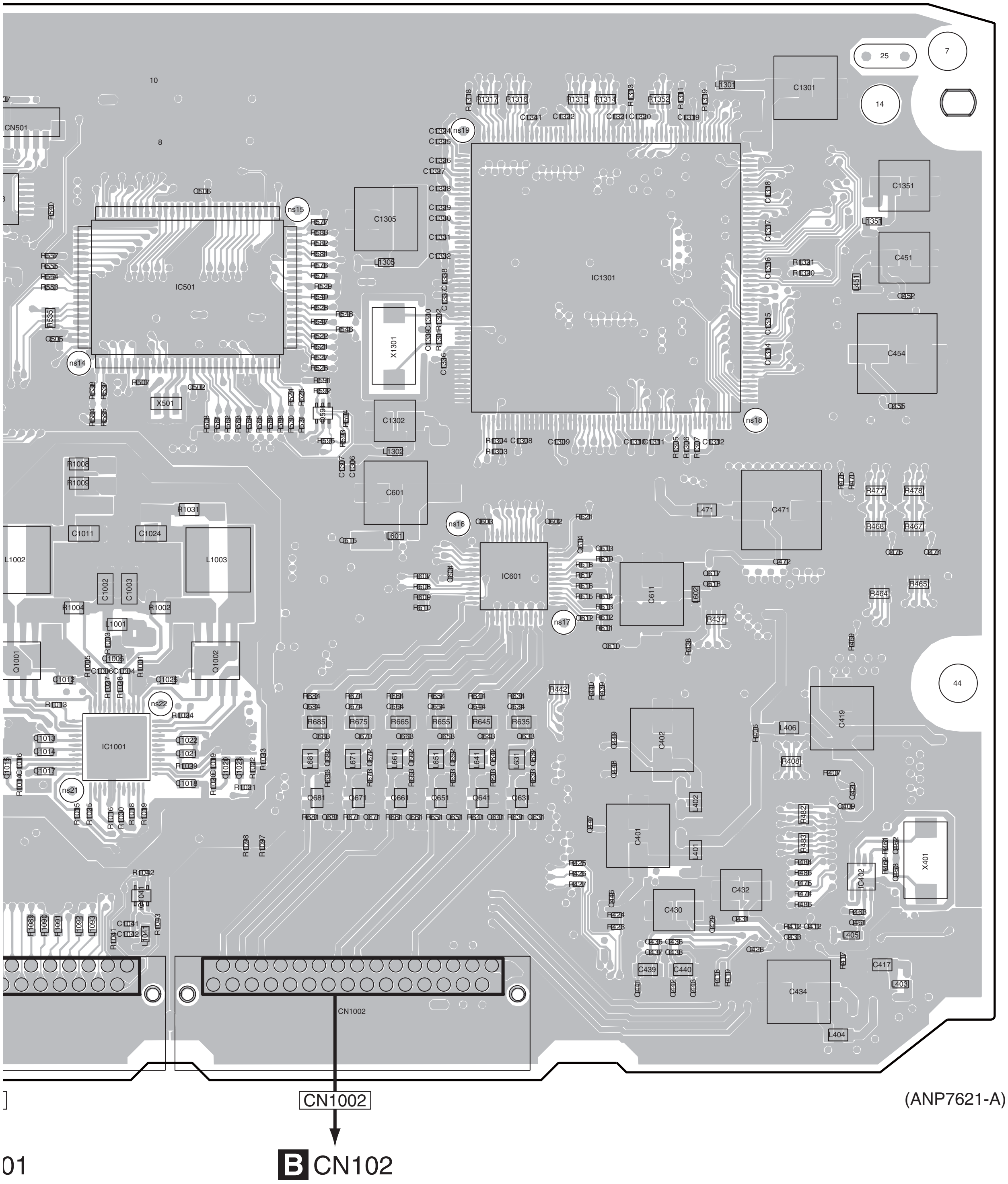
E **E**

11.6 HDMI & DVC ASSY

SIDE A


F HDMI & DVC ASSY
IC
Q
Q1281
IC1255
IC151
IC504 IC503
IC1257
IC1204
IC1301
IC501
Q1202
Q591
IC1252
IC101
Q1151
Q1251
IC1254
IC601
Q1252
IC202
Q1001Q1002
IC1151
IC204
IC251
Q1152
IC1001
Q631Q641
Q651Q661
Q671Q681
IC402
IC1041
IC301
Q353
JA1102
JA1151
JA1152
JA301
IC101
IC301
IC1151
IC1001
CN502
CN501
IC504
IC503
C503
L1002
X101
CN1001
CN1001
B CN101

SIDE A


CN501
IC501
X501
C1305
L1305
X1301
C1302
L1302
IC1301
C1301
L1301
C1351
L1351
C451
C454
ns14
ns15
ns16
ns17
ns18
ns19
ns21
ns22
C601
L601
IC601
C611
C471
L471
R477
R478
R468
R467
R464
R465
R437
R442
L1002
L1003
C1011
C1024
C1002
C1003
R1004
R1002
L1001
Q1001
Q1002
IC1001
R685
R675
R665
R655
R645
R635
C681
C671
C661
C651
C641
C631
C402
C419
L406
R408
C401
L402
L401
R482
R483
IC402
X401
C432
C430
C439
C440
C434
L404
C417
L405
CN1002
10
8
25
7
14
44

CN1002

(ANP7621-A)

01

B CN102

SIDE B

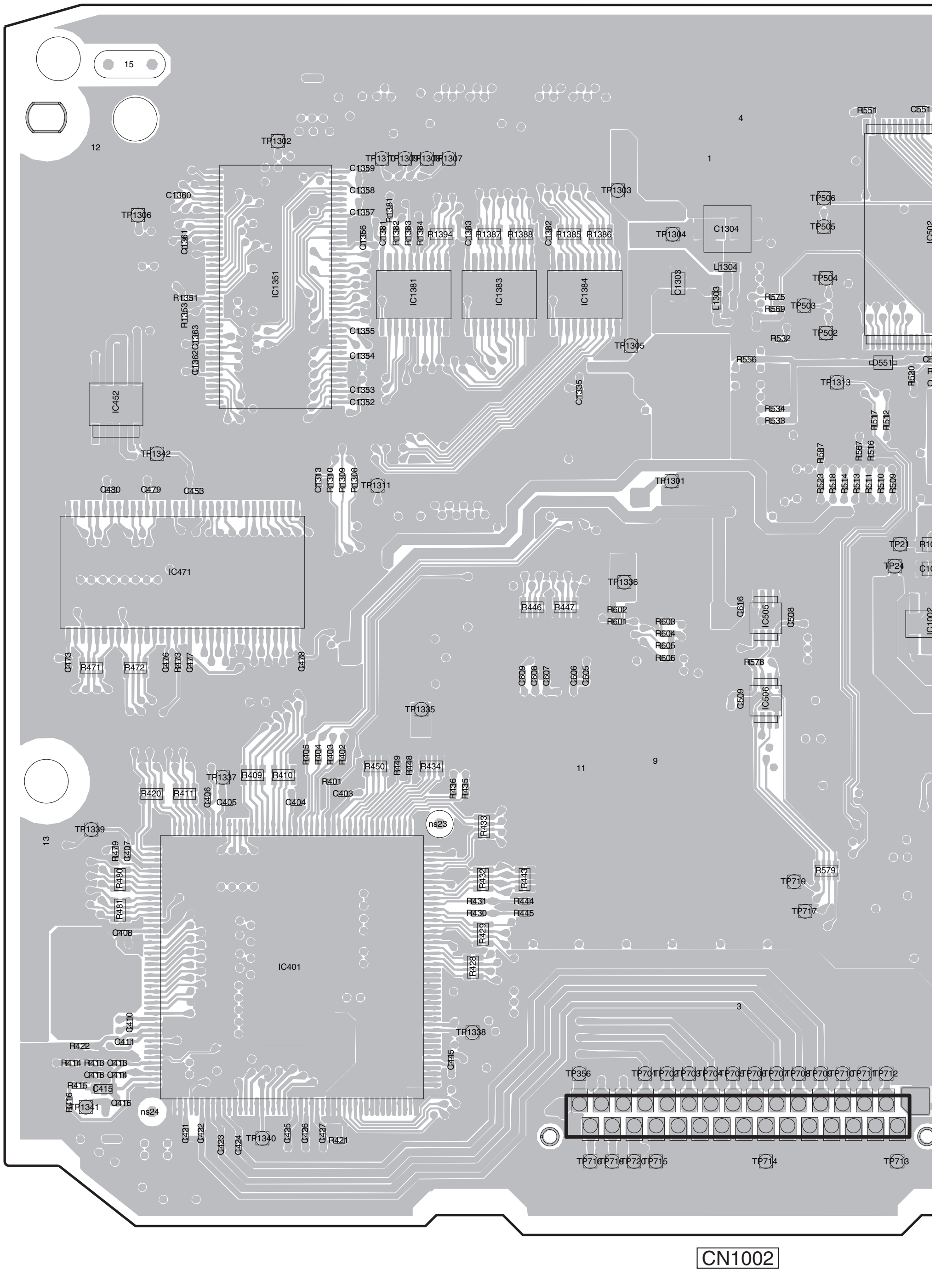
F HDMI & DVC ASSY

IC

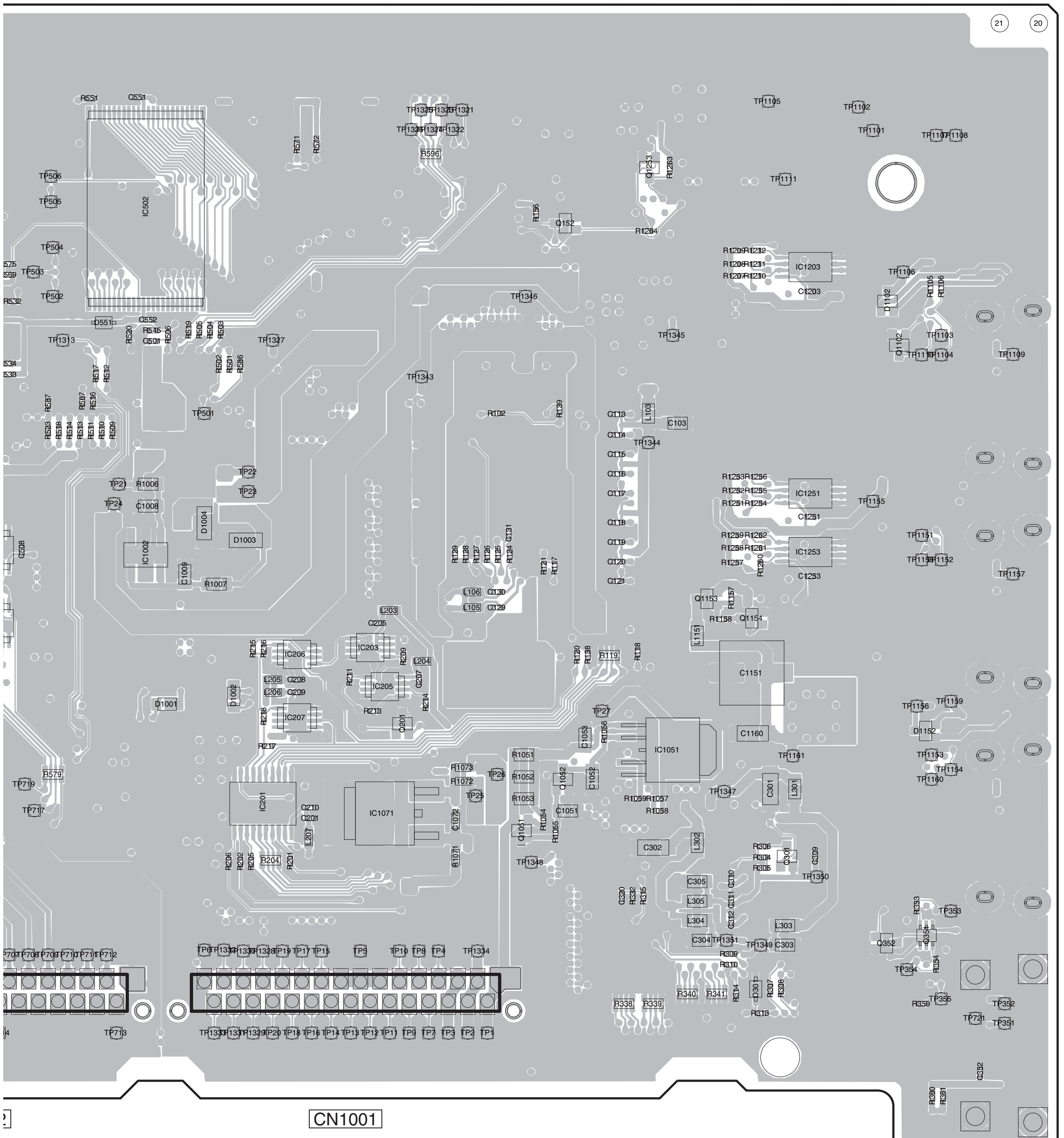
IC502
IC1351
IC1381 IC1383 IC1384
IC1203
IC452
IC1251
IC471
IC505
IC1253
IC1002
IC506
IC203
IC206
IC205
IC207
IC1051
IC201
IC1071
IC401

Q

Q1253
Q152
Q1102
Q1153
Q1154
Q201
Q1052
Q1051
Q301
Q351
Q352


IC1351
IC1381
IC1383
IC1384
IC452
IC471
IC401
IC505
IC506
C1304
L1304
TP1302
TP1306
TP1303
TP1304
TP1305
TP1301
TP1311
TP1342
TP1336
TP1335
TP1337
TP1339
TP1338
TP1341
TP1340
TP356
TP714
TP713
R446
R447
R471
R472
R420
R411
R409
R410
R450
R434
R433
R432
R443
R429
R428
R480
R481
R579
ns23
ns24
CN1002

SIDE B

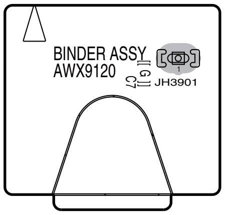

21
20
R551
C551
IC502
R521
R522
TP1325
TP1320
TP1321
TP1326
TP1324
TP1322
R596
Q1253
R1263
TP1105
TP1102
TP1101
TP1107
TP1108
TP1111
TP506
TP505
TP504
TP503
TP502
R536
Q152
R1264
R1209
R1212
R1208
R1211
R1207
R1210
IC1203
C1203
TP1106
D1102
R1105
R1106
TP1346
D551
C552
R545
C501
R520
R506
R519
R505
R504
R503
R502
R501
R586
TP1313
TP1327
TP1345
Q1102
TP1103
TP1110
TP1104
TP1109
R517
R512
TP1343
R587
R516
R523
R518
R514
R513
R511
R510
R509
TP501
R102
R139
C113
L103
C103
C114
TP1344
C115
C116
C117
C118
C119
C120
C121
TP21
R1006
TP22
TP23
TP24
C1008
D1004
D1003
IC1002
C1009
R1007
C508
R1253
R1256
R1252
R1255
R1251
R1254
IC1251
C1251
TP1155
R1259
R1262
R1258
R1261
R1257
R1260
IC1253
C1253
TP1151
TP1158
TP1152
TP1157
R129
R128
R127
R126
R125
R124
C131
R121
R117
L106
C130
L105
C129
Q1153
R1157
R1158
Q1154
L1151
L203
C205
IC203
R215
R216
IC206
R209
L204
R120
R138
R119
R118
C1151
L205
C208
L206
C209
R211
IC205
C207
R214
D1001
D1002
R218
IC207
R213
C201
TP27
C1053
R1056
IC1051
C1160
TP1156
TP1159
D1152
R217
R579
R1051
R1073
R1072
TP26
Q1052
C1052
TP1161
TP1153
TP1154
TP1160
TP719
TP717
IC201
C210
C201
IC1071
R1052
TP25
R1053
C1072
R1059
R1057
R1058
C1051
TP1347
C301
L301
L207
R1054
Q1051
R1055
R1071
C302
L302
R306
R304
R305
Q301
C309
R206
R202
R205
R204
R201
TP1348
TP1350
C305
L305
L304
C330
C320
R332
R315
C312
C311
L303
R333
TP353
C304
TP1351
TP1349
C303
Q352
Q351
R309
R310
R354
TP354
TP707
TP708
TP709
TP710
TP711
TP712
TP6
TP1332
TP1330
TP1328
TP19
TP17
TP15
TP5
TP10
TP8
TP4
TP1334
R338
R339
R340
R341
R314
D301
R307
R308
R313
R359
TP355
TP352
TP721
TP351
TP713
TP1333
TP1331
TP1329
TP20
TP18
TP16
TP14
TP13
TP12
TP11
TP9
TP7
TP3
TP2
TP1
C332
R380
R381
CN1001

(ANP7621-A)

11.7 BINDER, BIND L FRONT and BIND L BACK ASSYS

SIDE A

H BINDER ASSY

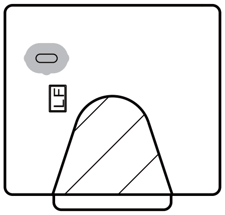


BINDER ASSY
AWX9120
C7
[[G]]
JH3901

(ANP7643-C)

SIDE B

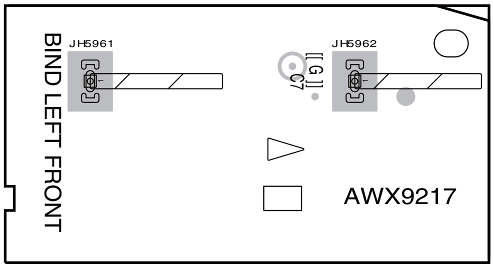
H BINDER ASSY



(ANP7643-C)

SIDE A

I BIND L FRONT ASSY

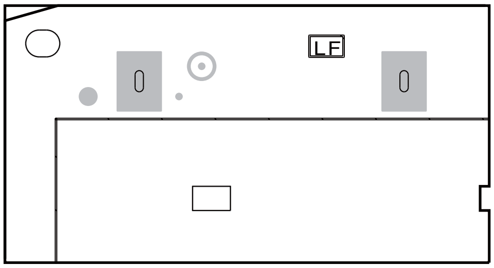


JH5961
JH5962
[[G]]
C7
BIND LEFT FRONT
AWX9217

(ANP7641-C)

SIDE B

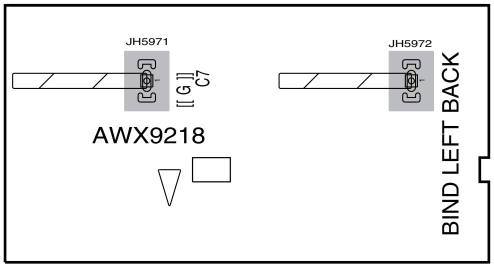
I BIND L FRONT ASSY



(ANP7641-C)

SIDE A

J BIND L BACK ASSY

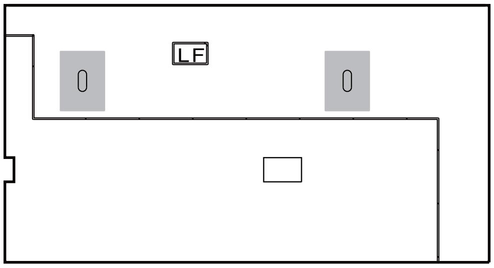


JH5971
JH5972
C7
[[G]]
AWX9218
BIND LEFT BACK

(ANP7641-C)

SIDE B

J BIND L BACK ASSY



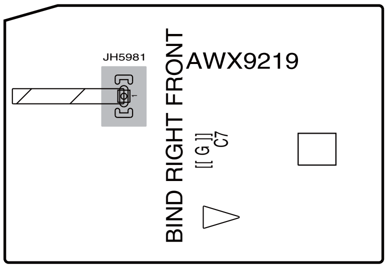
(ANP7641-C)

11.8 BIND R FRONT, BIND R BACK ASSYS

SIDE A

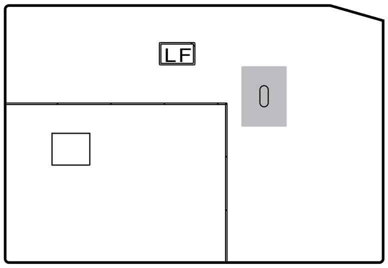
SIDE B

K BIND R FRONT ASSY


JH5981
AWX9219
BIND RIGHT FRONT
[[G]]
C7

(ANP7641-C)

K BIND R FRONT ASSY

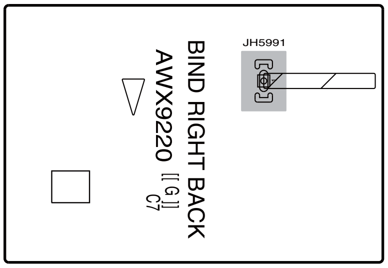


(ANP7641-C)

SIDE A

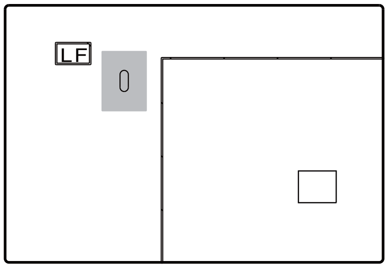
SIDE B

L BIND R BACK ASSY


JH5991
BIND RIGHT BACK
AWX9220
[[G]]
C7

(ANP7641-C)

L BIND R BACK ASSY

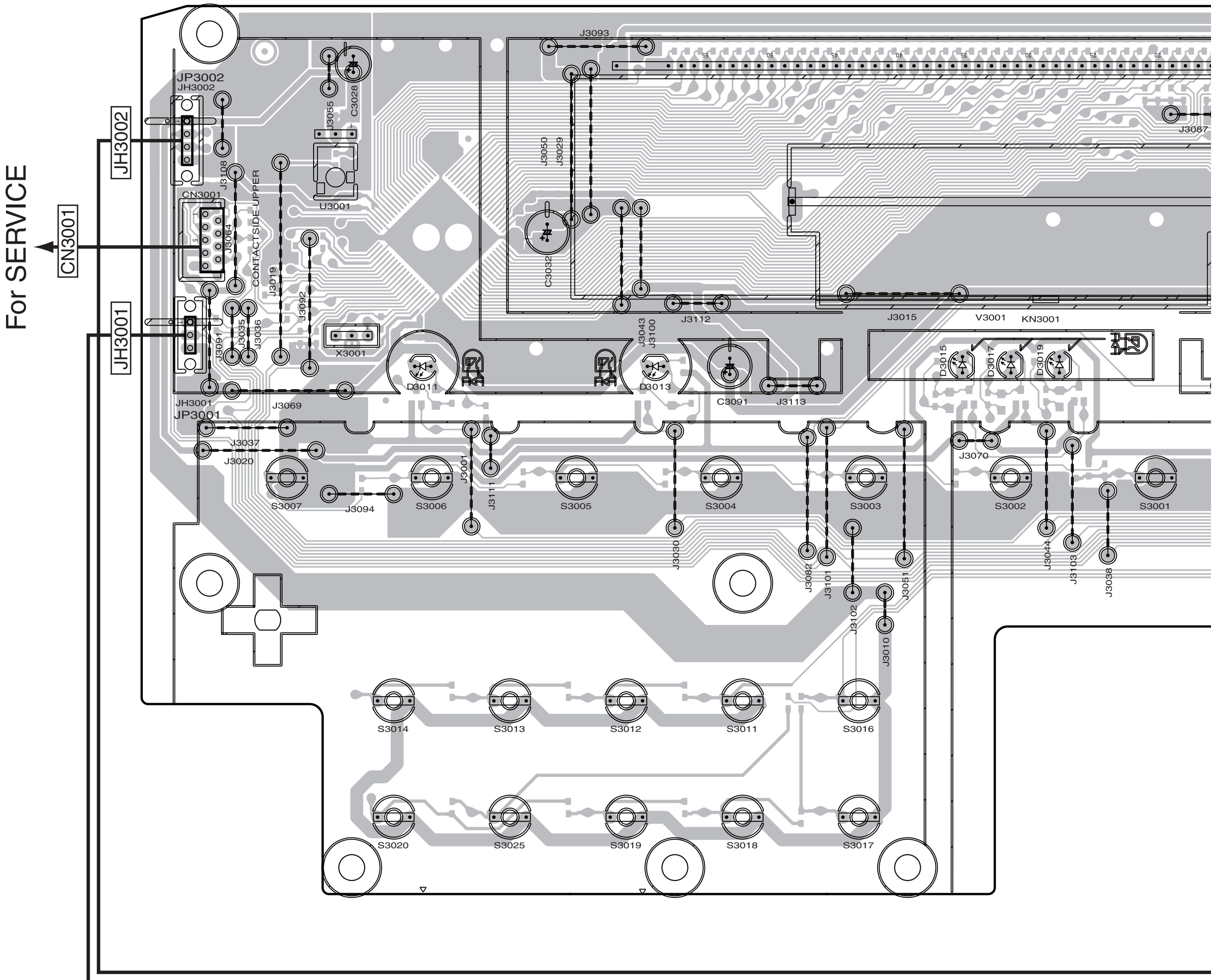


(ANP7641-C)

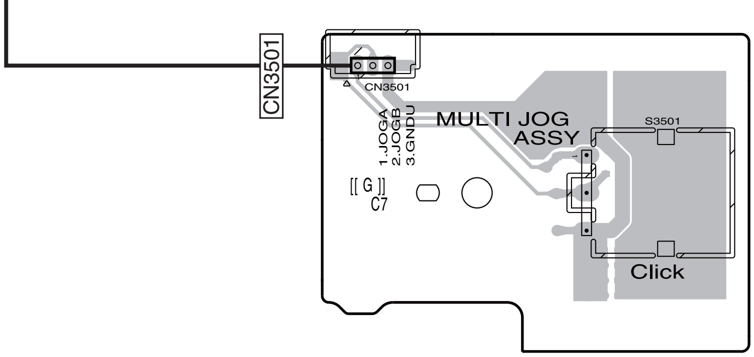
11.9 DISPLAY, MULTI JOG and POWER SW ASSYS

SIDE A

M DISPLAY ASSY


For SERVICE
CN3001
JH3002
JH3001
JP3002
JH3002
CN3001
J3108
J3064
CONTACT SIDE UPPER
J3019
J3092
J3055
C3028
U3001
J3093
J3050
J3029
C3032
J3087
J3043
J3100
J3112
J3015
V3001
KN3001
D3015
D3017
D3019
J3091
J3035
J3036
X3001
D3011
D3013
C3091
J3113
JH3001
JP3001
J3069
J3037
J3020
J3001
J3111
J3070
S3007
J3094
S3006
S3005
S3004
S3003
S3002
S3001
J3030
J3082
J3101
J3102
J3051
J3010
J3044
J3103
J3038
S3014
S3013
S3012
S3011
S3016
S3020
S3025
S3019
S3018
S3017

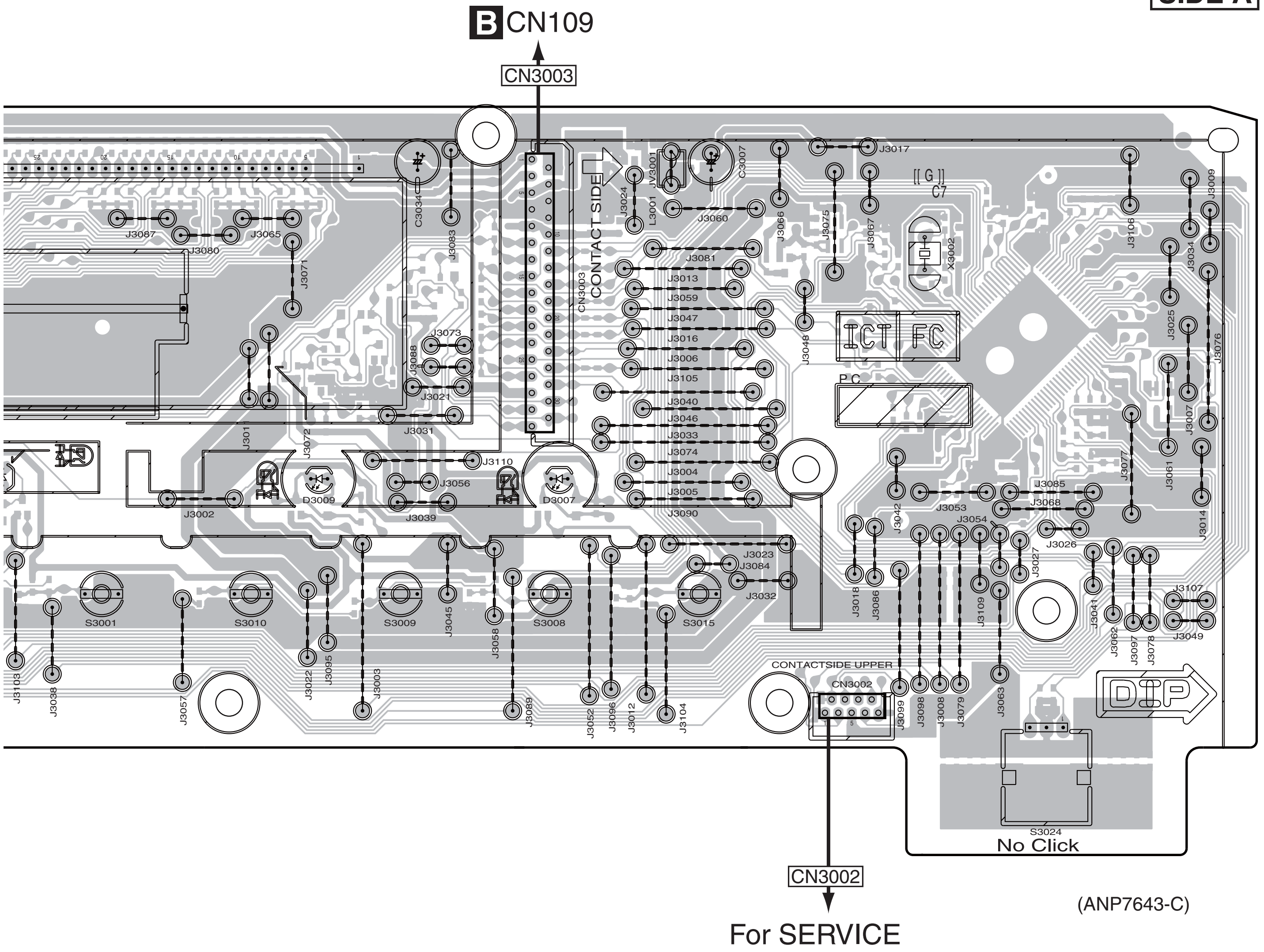
N MULTI JOG ASSY


CN3501
CN3501
1.JOGA
2.JOGB
3.GNDU
MULTI JOG ASSY
S3501
[[G]]
C7
Click

(ANP7643-C)

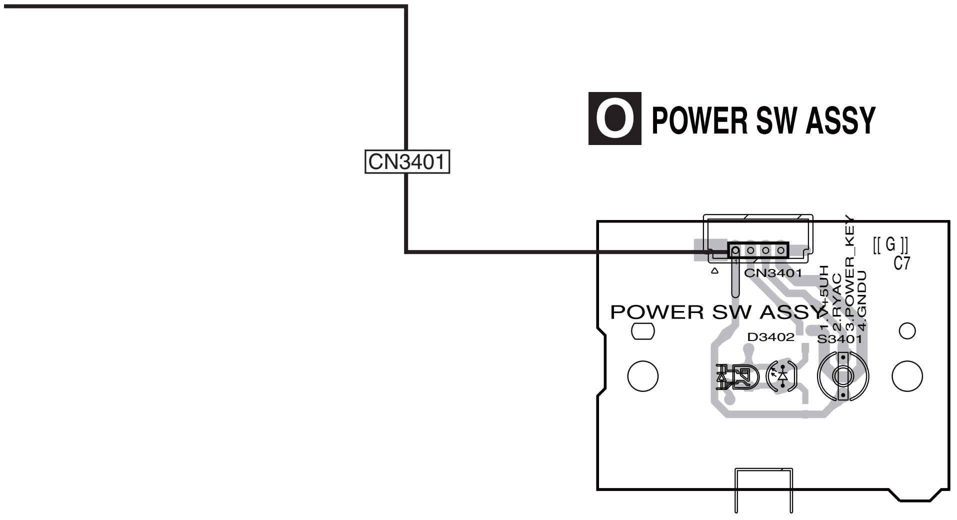
M N

SIDE A


B CN109
CN3003
CONTACT SIDE
[[G]]
C7
ICT
FC
P.C
DIP
CONTACTSIDE UPPER
CN3002
S3024
No Click
CN3002
For SERVICE
S3001
S3010
S3009
S3008
S3015
D3009
D3007
C3034
C3007
X3002
L3001
J3017
J3060
J3081
J3013
J3059
J3047
J3016
J3006
J3105
J3040
J3046
J3033
J3074
J3004
J3005
J3090
J3087
J3080
J3065
J3071
J3073
J3021
J3031
J3110
J3056
J3039
J3002
J3053
J3054
J3085
J3068
J3026
J3023
J3084
J3032
J3107
J3049

(ANP7643-C)

O POWER SW ASSY


CN3401
CN3401
[[G]]
C7
POWER SW ASSY
1.+5UH
2.RYAC
3.POWER_KEY
4.GNDU
D3402
S3401

(ANP7643-C)

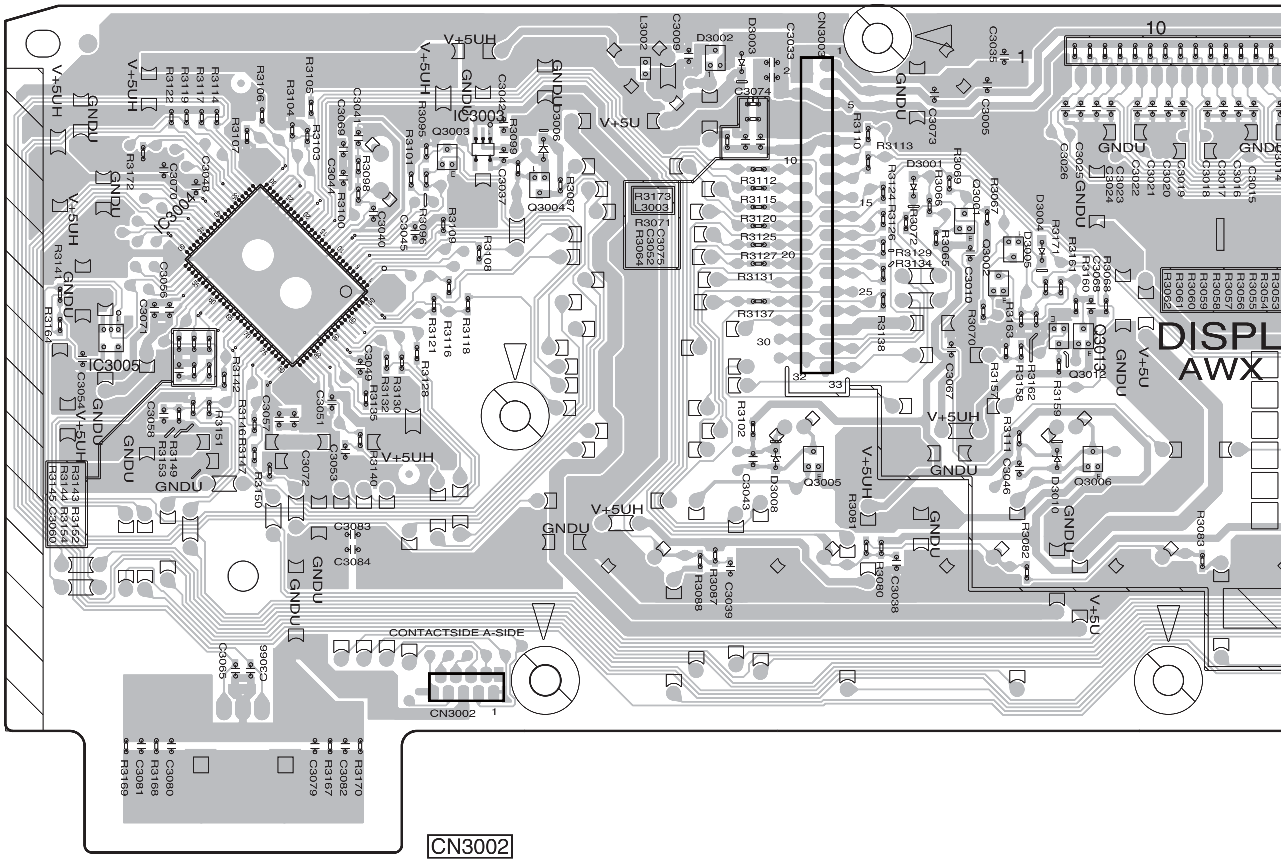
M O

SIDE B

M DISPLAY ASSY

CN3003

IC	Q
IC3003	Q3003
IC3004	Q3001 Q3004
	Q3002
IC3001 IC3005	Q3013 Q3012
	Q3011 Q3005 Q3007 Q3006 Q3008 Q3010 Q3009



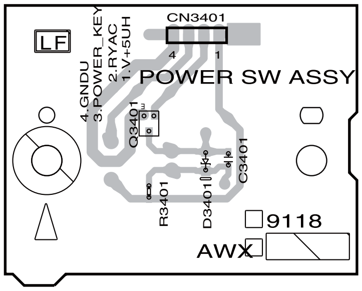
V+5UH
GNDU
V+5U
IC3003
IC3004
IC3005
Q3003
Q3004
Q3005
Q3006
Q3013
CN3003
CN3002
CONTACTSIDE A-SIDE
D3001
D3002
D3003
D3004
D3005
D3006
D3008
D3010
L3002
L3003
R3173
C3074
DISPL
AWX
10
1
5
15
20
25
30
32
33

CN3002

O POWER SW ASSY

CN3401

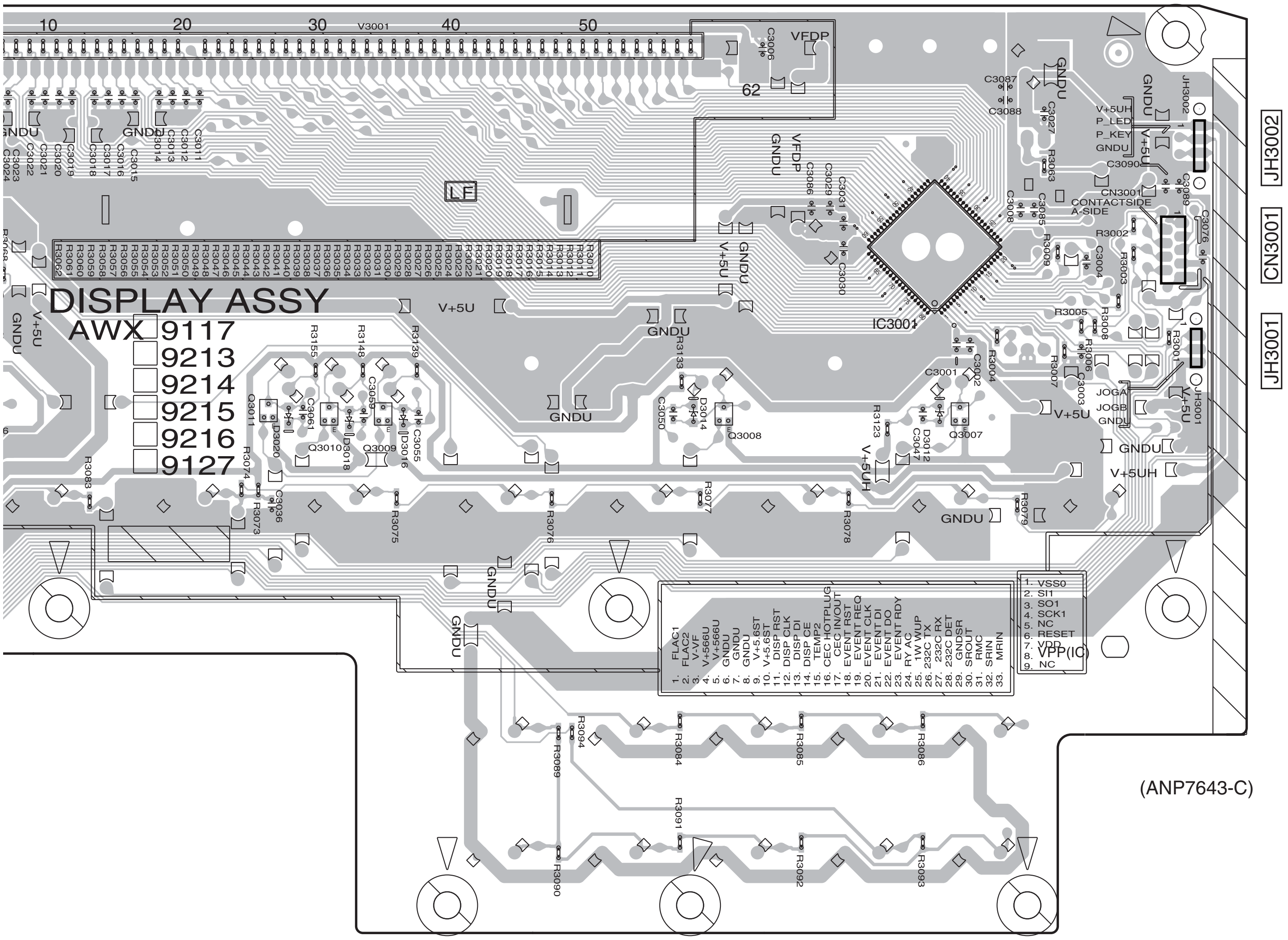
IC	Q
	Q3401



LF
CN3401
4
1
4.GNDU
3.POWER_KEY
2.RYAC
1.V+5UH
POWER SW ASSY
Q3401
C3401
R3401
D3401
9118
AWX

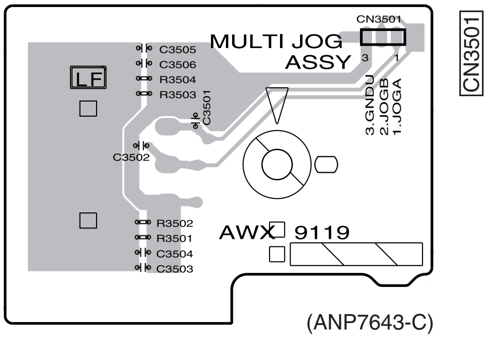
(ANP7643-C)

SIDE B


DISPLAY ASSY
AWX 9117
9213
9214
9215
9216
9127
V3001
10
20
30
40
50
62
VFDP
GNDU
V+5U
LF
IC3001
JH3002
CN3001
JH3001
CN3001 CONTACTSIDE A-SIDE
V+5UH
P_LED
P_KEY
GNDU
JOGA
JOGB
GNDU
V+5UH
Q3007
Q3008
Q3009
Q3010
Q3011
1. VSS0
2. SI1
3. SO1
4. SCK1
5. NC
6. RESET
7. VDD
8. VPP(IC)
9. NC
1. FLAC1
2. FLAC2
3. V-VF
4. V+56U
5. GNDU
6. GNDU
7. GNDU
8. GNDU
9. V+5.6ST
10. V+5.6ST
11. DISP RST
12. DISP CLK
13. DISP DI
14. DISP CE
15. TEMP2
16. CEC HOTPLUG
17. CEC IN/OUT
18. EVENT RST
19. EVENT REQ
20. EVENT CLK
21. EVENT DI
22. EVENT DO
23. EVENT RDY
24. RY AC
25. 1W WUP
26. 232C TX
27. 232C RX
28. 232C DET
29. GNDSR
30. SROUT
31. RMC
32. SRIN
33. MRIN

(ANP7643-C)

N MULTI JOG ASSY


MULTI JOG ASSY
CN3501
3
1
3.GNDU
2.JOGB
1.JOGA
C3505
C3506
R3504
R3503
C3501
C3502
R3502
R3501
C3504
C3503
LF
AWX 9119

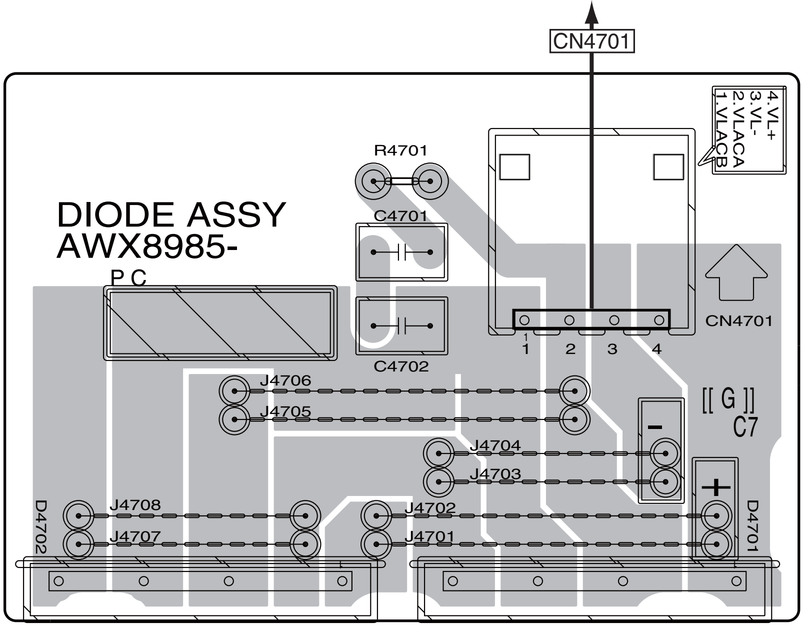
(ANP7643-C)

11.10 DIODE ASSY

SIDE A **SIDE A**

P DIODE ASSY

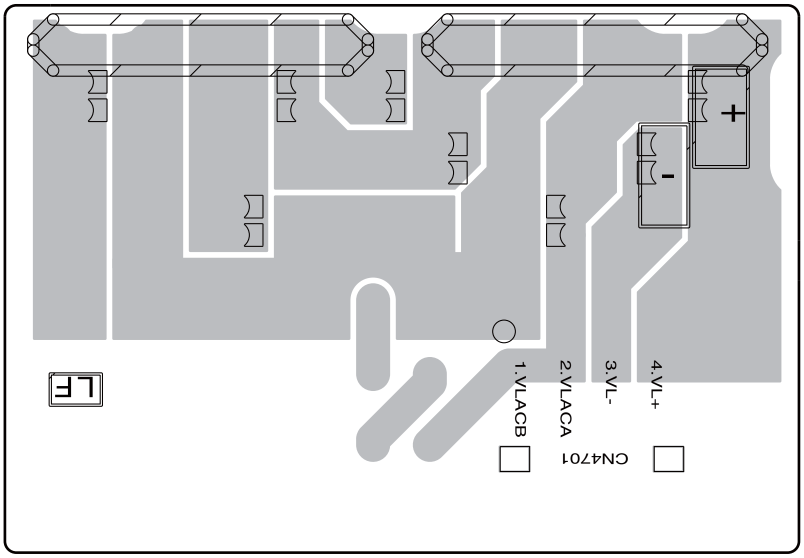
R JP5701


CN4701
4.VL+
3.VL-
2.VLACA
1.VLACB
R4701
C4701
DIODE ASSY
AWX8985-
P C
C4702
1 2 3 4
CN4701
J4706
J4705
[[G]]
C7
J4704
J4703
J4708
J4707
J4702
J4701
D4702
D4701
-
+

(ANP7642-B)

SIDE B **SIDE B**

P DIODE ASSY

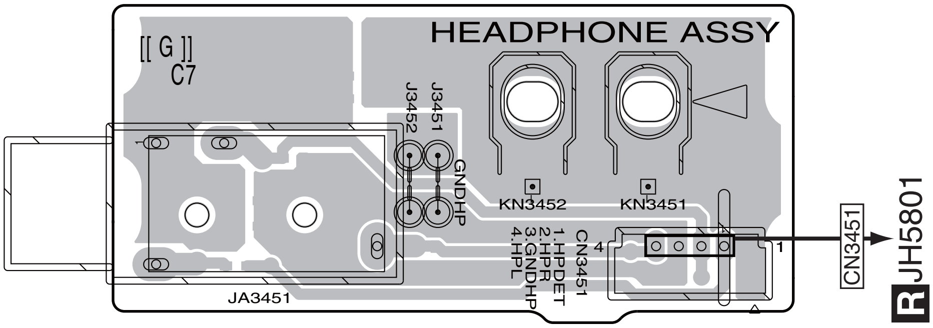

+
-
LF
1.VLACB
2.VLACA
3.VL-
4.VL+
CN4701

(ANP7642-B)

11.11 HEADPHONE ASSY

SIDE A **SIDE A**

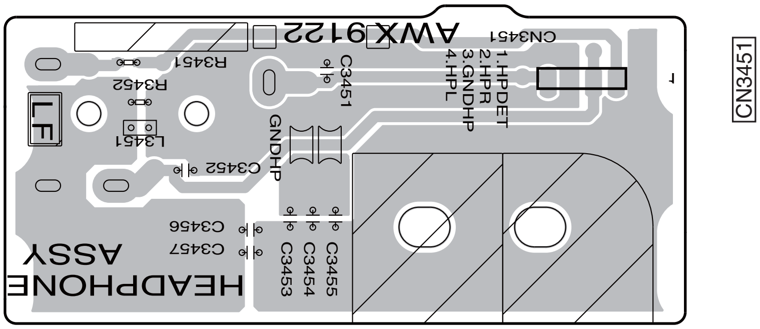
Q HEADPHONE ASSY


HEADPHONE ASSY
[[G]]
C7
J3451
J3452
GNDHP
KN3452
KN3451
CN3451
1.HPDET
2.HPR
3.GNDHP
4.HPL
4
1
JA3451
CN3451
JH5801
R

(ANP7643-C)

SIDE B **SIDE B**

Q HEADPHONE ASSY


AWX9122
CN3451
1.HPDET
2.HPR
3.GNDHP
4.HPL
R3451
R3452
C3451
LF
L3451
GNDHP
C3452
C3456
C3457
C3453
C3454
C3455
HEADPHONE
ASSY
CN3451

(ANP7643-C)

11.12 POWER AMP ASSY

SIDE A

A

R POWER AMP ASSY

IC Q

B

C

IC5752

Q5707

IC5751

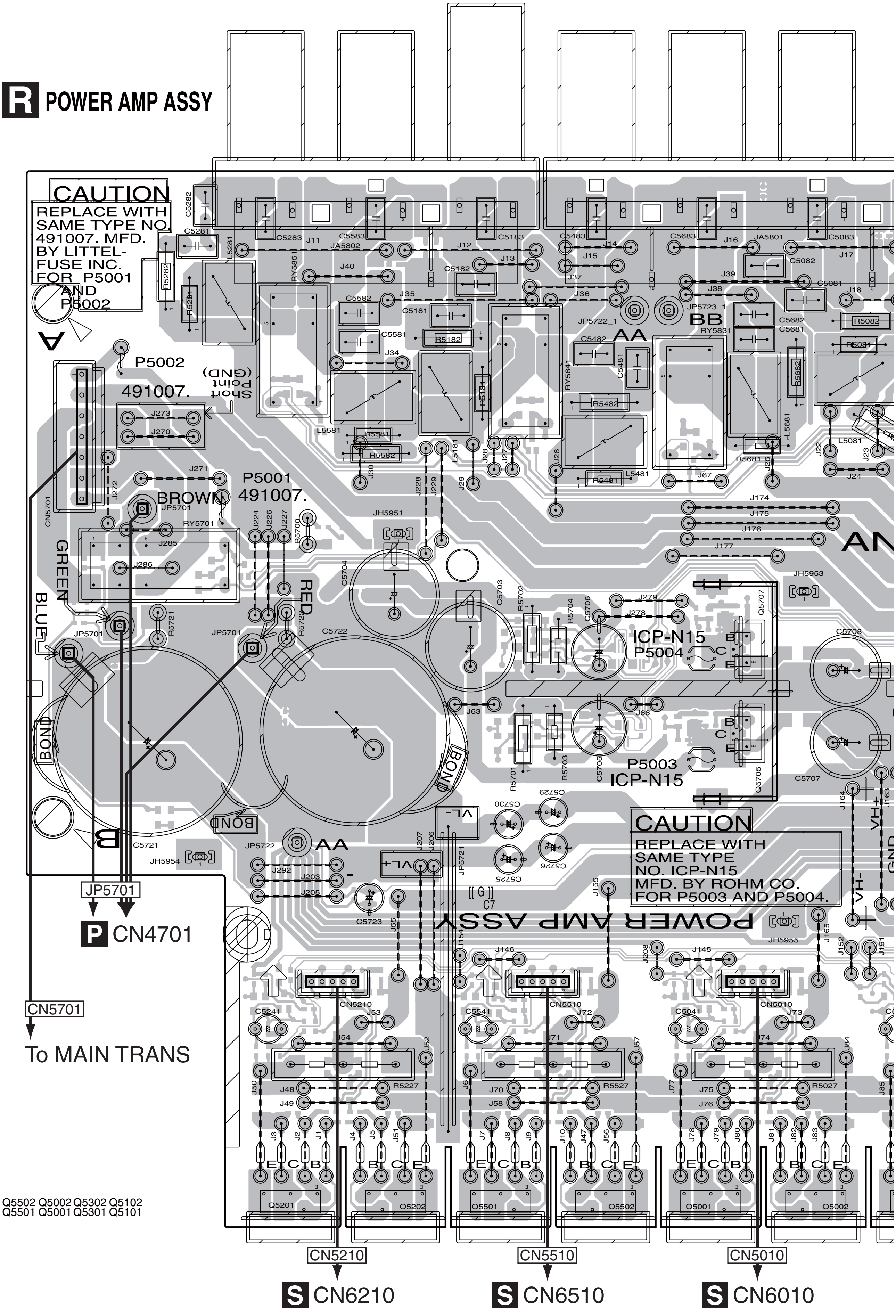
D

Q5705

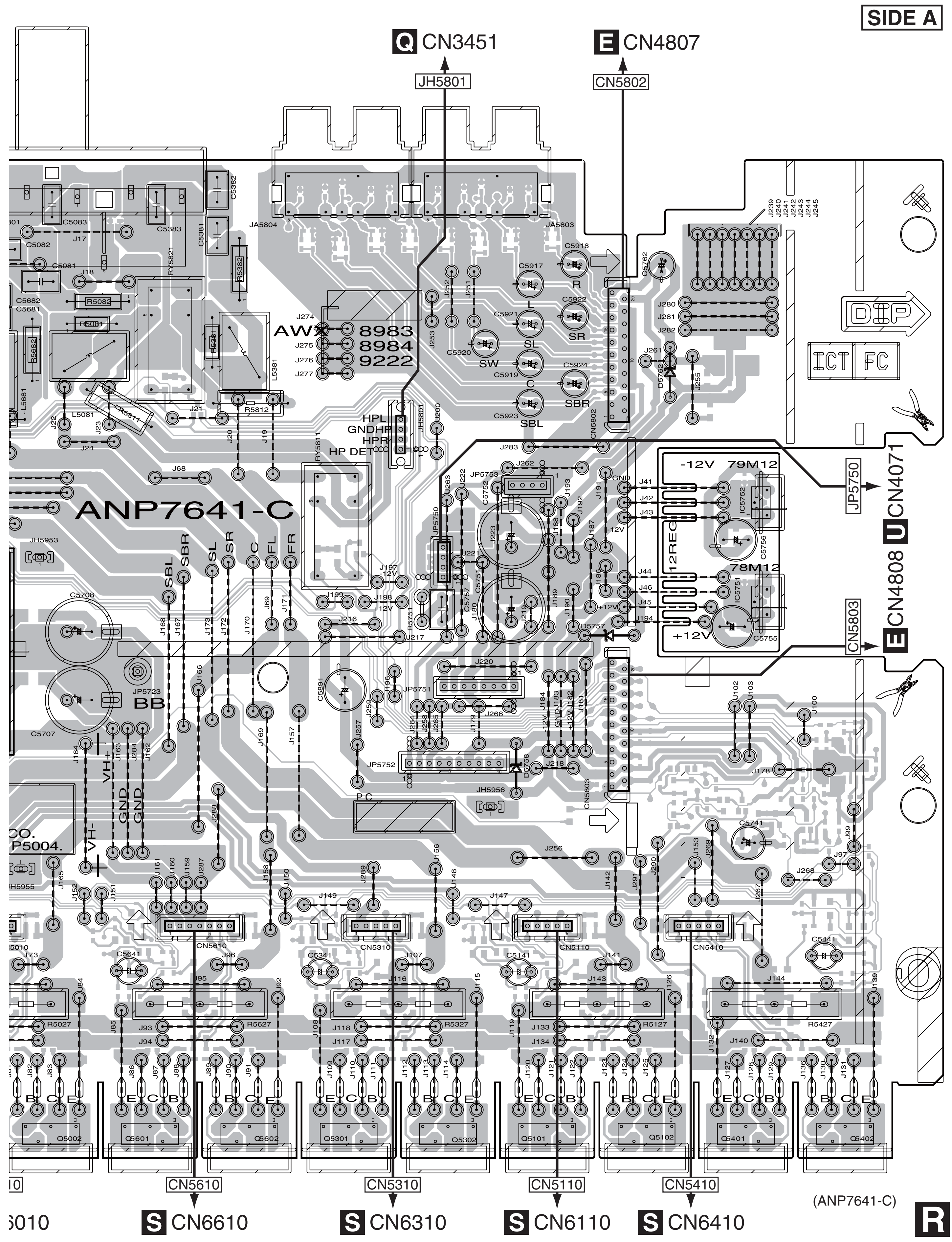
E

Q5202 Q5502 Q5002 Q5302 Q5102
Q5201 Q5501 Q5001 Q5301 Q5101

F


CAUTION
REPLACE WITH SAME TYPE NO 491007. MFD. BY LITTEL-FUSE INC. FOR P5001 AND P5002
P5002
491007.
Short Point (GND)
P5001
491007.
BROWN
GREEN
BLUE
RED
JP5701
RY5701
C5721
C5722
BOND
AA
BB
JP5722
VL-
VL+
ICP-N15
P5004
P5003
CAUTION
REPLACE WITH SAME TYPE NO. ICP-N15 MFD. BY ROHM CO. FOR P5003 AND P5004.
POWER AMP ASSY
VH+
VH-
GND
C7
JP5701
P CN4701
CN5701
To MAIN TRANS
CN5210
CN5510
CN5010
Q5201
Q5202
Q5501
Q5502
Q5001
Q5002
E C B
B C E
S CN6210
S CN6510
S CN6010

SIDE A


Q CN3451
JH5801
E CN4807
CN5802
ANP7641-C
AWX 8983
8984
9222
HPL
GNDHP
HPR
HP DET
JA5804
JA5803
R
L
SR
SW
SL
C
SBR
SBL
SBL
SBR
SL
SR
C
FL
FR
DIP
ICT
FC
-12V 79M12
12REG
78M12
+12V
JP5750
U CN4071
E CN4808
CN5803
JP5751
JP5752
JP5753
JH5953
JH5955
JH5956
JP5723
BB
VH+
VH-
GND
GND
PC
CO.
P5004.
CN5610
CN5310
CN5110
CN5410
Q5002
Q5601
Q5602
Q5301
Q5302
Q5101
Q5102
Q5401
Q5402
B C E
E C B
CN5610
CN5310
CN5110
CN5410
S CN6610
S CN6310
S CN6110
S CN6410
6010

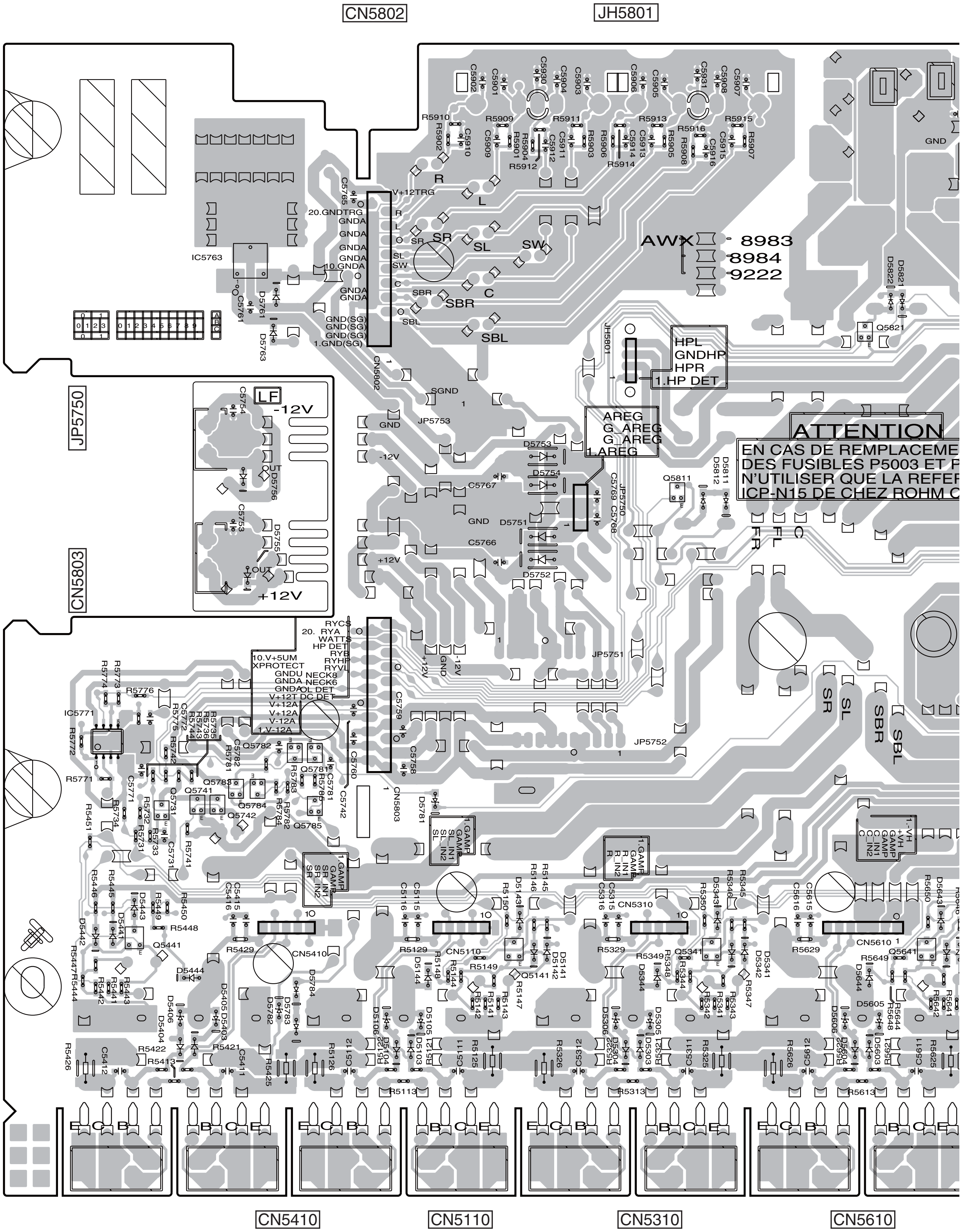
(ANP7641-C)

R

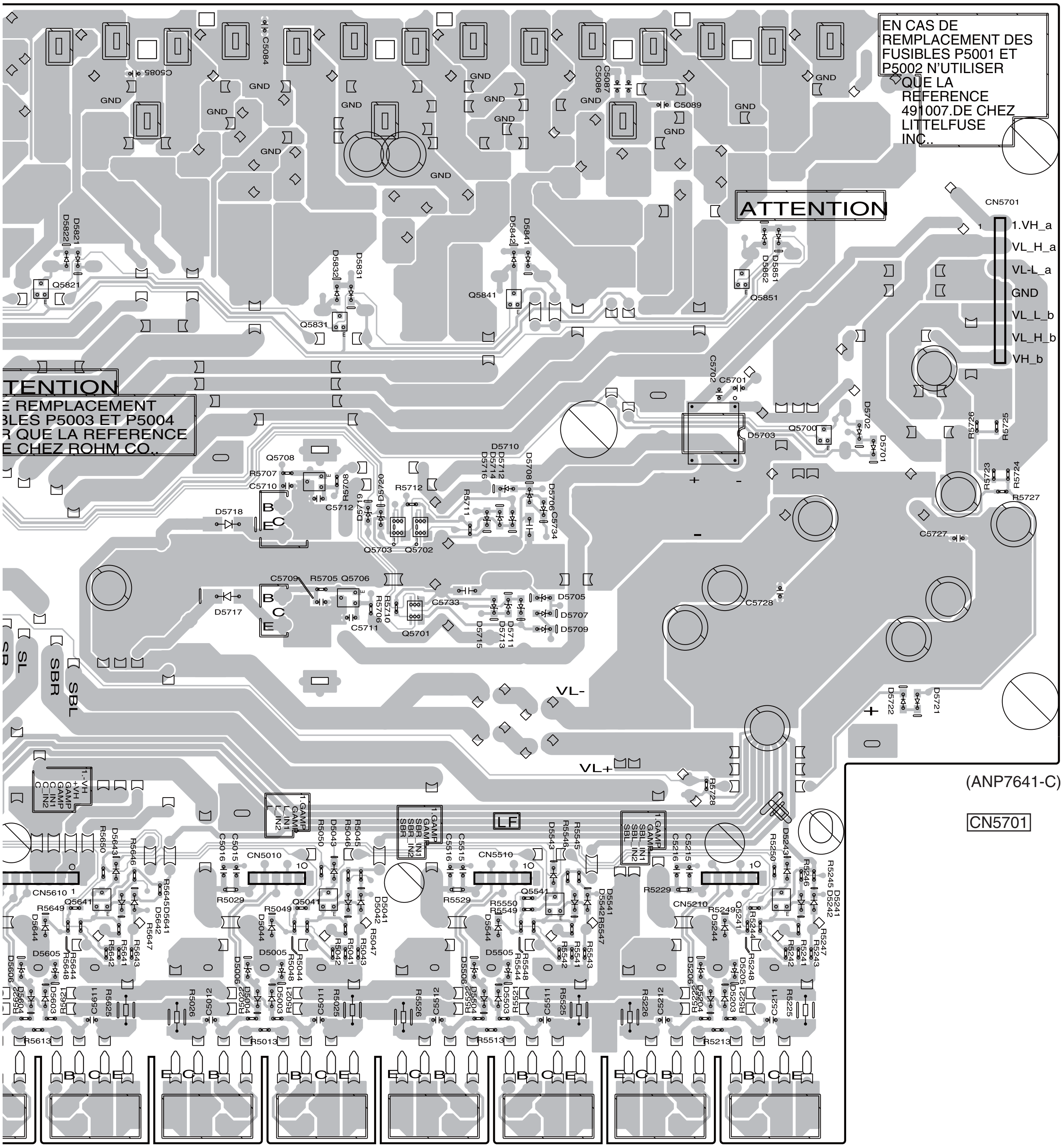
SIDE B

R POWER AMP ASSY

IC	Q
IC5763	
	Q5821 Q5841 Q5851
	Q5831
	Q5700 Q5811
	Q5708
	Q5703 Q5702
	Q5706
	Q5701
IC5771	
	Q5782
	Q5781 Q5783 Q5741 Q5731 Q5784 Q5742 Q5785
	Q5541 Q5441 Q5041 Q5341 Q5641 Q5141 Q5241


CN5802
JH5801
JP5750
CN5803
IC5763
IC5771
LF
-12V
+12V
AWX 8983
8984
9222
HPL
GNDHP
HPR
1.HP DET
AREG
G_AREG
G_AREG
1.AREG
ATTENTION
EN CAS DE REMPLACEME
DES FUSIBLES P5003 ET P
N'UTILISER QUE LA REFER
ICP-N15 DE CHEZ ROHM C
SR
SL
SW
SBR
SBL
C
FR
FL
R
L
GND
CN5410
CN5110
CN5310
CN5610

SIDE B


EN CAS DE
REMPLACEMENT DES
FUSIBLES P5001 ET
P5002 N'UTILISER
QUE LA
REFERENCE
491007.DE CHEZ
LITTELFUSE
INC..
ATTENTION
TENTION
E REMPLACEMENT
BLES P5003 ET P5004
R QUE LA REFERENCE
E CHEZ ROHM CO..
CN5701
1.VH_a
VL_H_a
VL-L_a
GND
VL_L_b
VL_H_b
VH_b
VL-
VL+
SBR
SBL
SL
LF
GND
CN5610
CN5010
CN5510
CN5210
Q5821
Q5831
Q5841
Q5851
Q5700
Q5701
Q5702
Q5703
Q5706
Q5708
Q5041
Q5241
Q5541
Q5641
B
C
E

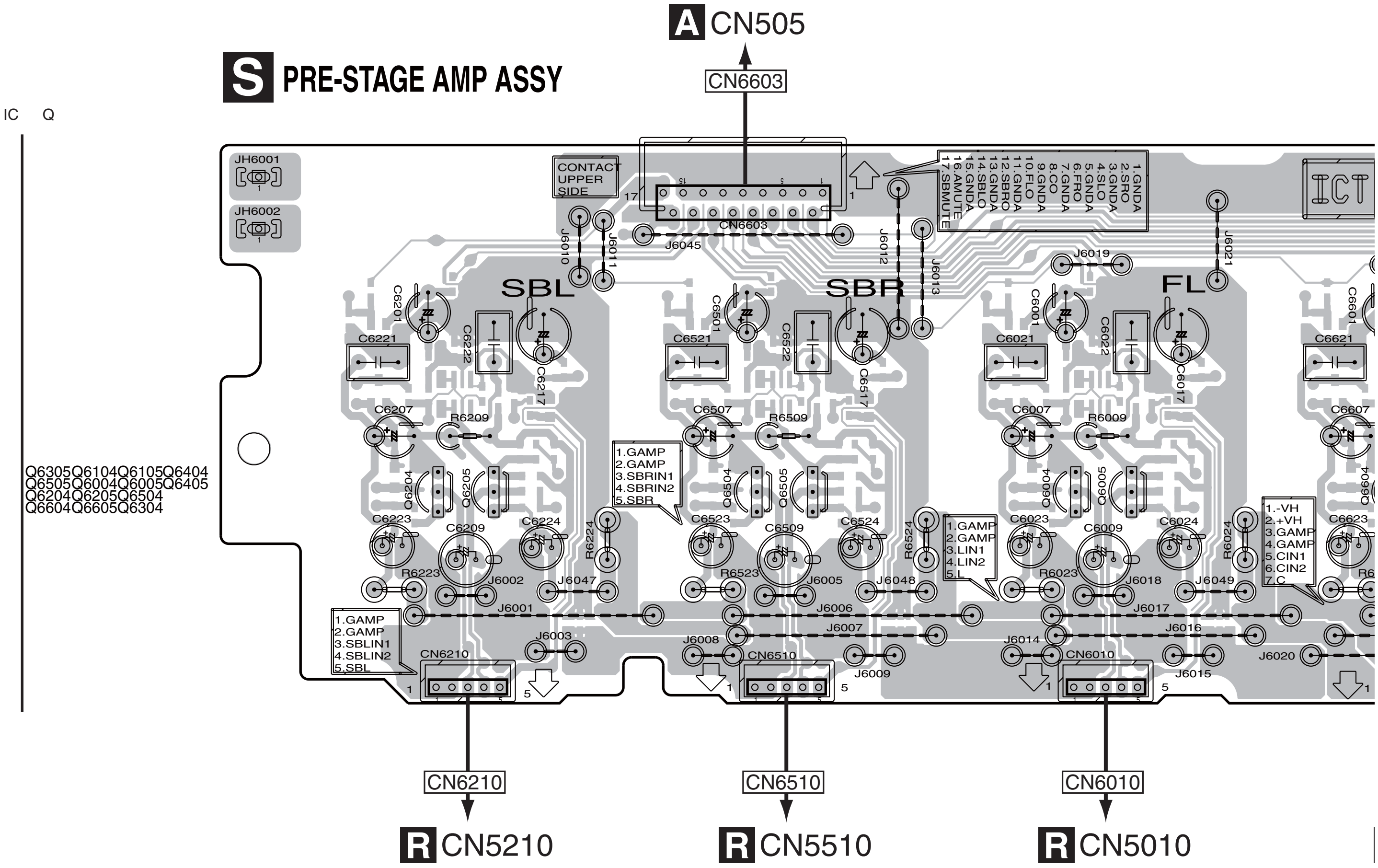
(ANP7641-C)

CN5701

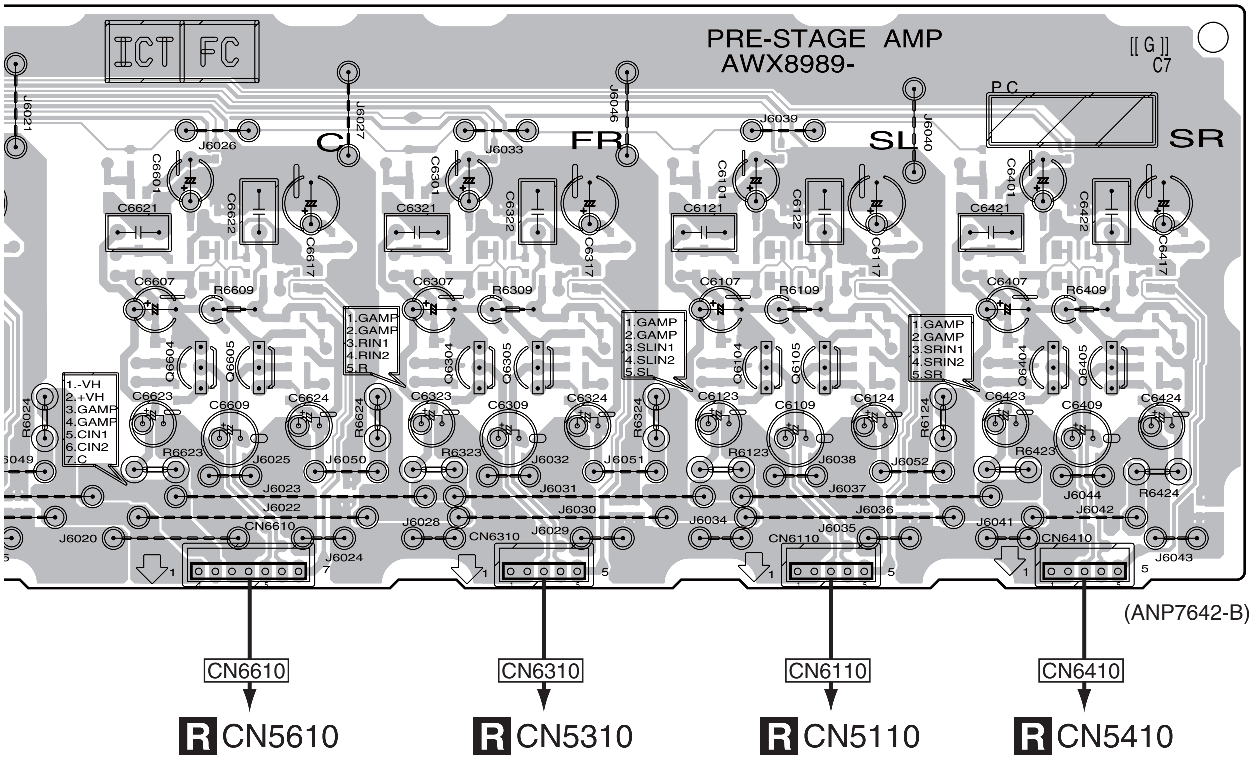
CN5610 CN5010 CN5510 CN5210

11.13 PRE-STAGE AMP ASSY

SIDE A


A CN505
CN6603
S PRE-STAGE AMP ASSY
IC Q
Q6305Q6104Q6105Q6404
Q6505Q6004Q6005Q6405
Q6204Q6205Q6504
Q6604Q6605Q6304
JH6001
JH6002
CONTACT UPPER SIDE
17
1
CN6603
1.GNDA
2.SRO
3.GNDA
4.SLO
5.GNDA
6.FRO
7.GNDA
8.CO
9.GNDA
10.FLO
11.GNDA
12.SBRO
13.GNDA
14.SBLO
15.GNDA
16.AMUTE
17.SBMUTE
ICT
J6010
J6011
J6045
J6012
J6013
J6019
J6021
SBL
SBR
FL
C6201
C6222
C6217
C6221
C6501
C6522
C6517
C6521
C6001
C6022
C6017
C6021
C6601
C6621
C6207
R6209
C6507
R6509
C6007
R6009
C6607
Q6204
Q6205
Q6504
Q6505
Q6004
Q6005
Q6604
1.GAMP
2.GAMP
3.SBRIN1
4.SBRIN2
5.SBR
C6223
C6209
C6224
R6224
C6523
C6509
C6524
R6524
1.GAMP
2.GAMP
3.LIN1
4.LIN2
5.L
C6023
C6009
C6024
R6024
1.-VH
2.+VH
3.GAMP
4.GAMP
5.CIN1
6.CIN2
7.C
C6623
R6223
J6002
J6047
R6523
J6005
J6048
R6023
J6018
J6049
J6001
J6006
J6017
1.GAMP
2.GAMP
3.SBLIN1
4.SBLIN2
5.SBL
J6003
J6008
J6007
J6014
J6016
CN6210
CN6510
CN6010
J6009
J6015
J6020
1
5
CN6210
R CN5210
CN6510
R CN5510
CN6010
R CN5010

SIDE A



PRE-STAGE AMP
AWX8989-
ICT
FC
[[G]]
C7
PC
C
FR
SL
SR
J6021
J6027
J6046
J6040
J6026
J6033
J6039
C6601
C6622
C6617
C6621
C6301
C6322
C6317
C6321
C6101
C6122
C6117
C6121
C6401
C6422
C6417
C6421
C6607
R6609
C6307
R6309
C6107
R6109
C6407
R6409
Q6604
Q6605
Q6304
Q6305
Q6104
Q6105
Q6404
Q6405
1.-VH
2.+VH
3.GAMP
4.GAMP
5.CIN1
6.CIN2
7.C
1.GAMP
2.GAMP
3.RIN1
4.RIN2
5.R
1.GAMP
2.GAMP
3.SLIN1
4.SLIN2
5.SL
1.GAMP
2.GAMP
3.SRIN1
4.SRIN2
5.SR
R6024
R6624
R6324
R6124
C6623
C6609
C6624
C6323
C6309
C6324
C6123
C6109
C6124
C6423
C6409
C6424
J6049
R6623
J6025
J6050
R6323
J6032
J6051
R6123
J6038
J6052
R6423
J6044
R6424
J6023
J6022
J6031
J6030
J6037
J6036
J6042
J6020
CN6610
J6024
J6028
CN6310
J6029
J6034
CN6110
J6035
J6041
CN6410
J6043
1
7
5
(ANP7642-B)
CN6610
CN6310
CN6110
CN6410
R CN5610
R CN5310
R CN5110
R CN5410

SIDE B

A

B

S PRE-STAGE AMP ASSY

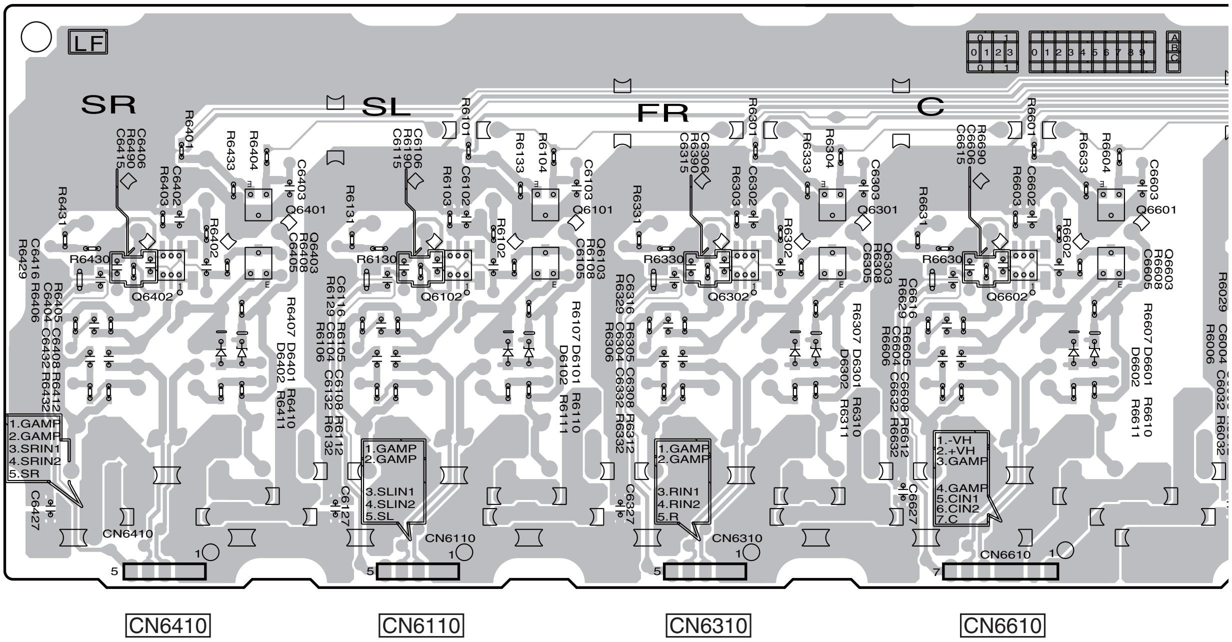
IC Q

C

Q6101 Q6601 Q6501
Q6401 Q6301 Q6001
Q6201

Q6403 Q6603 Q6503
Q6103 Q6303 Q6003
Q6203
Q6402 Q6302 Q6202
Q6102 Q6602 Q6002
Q6502

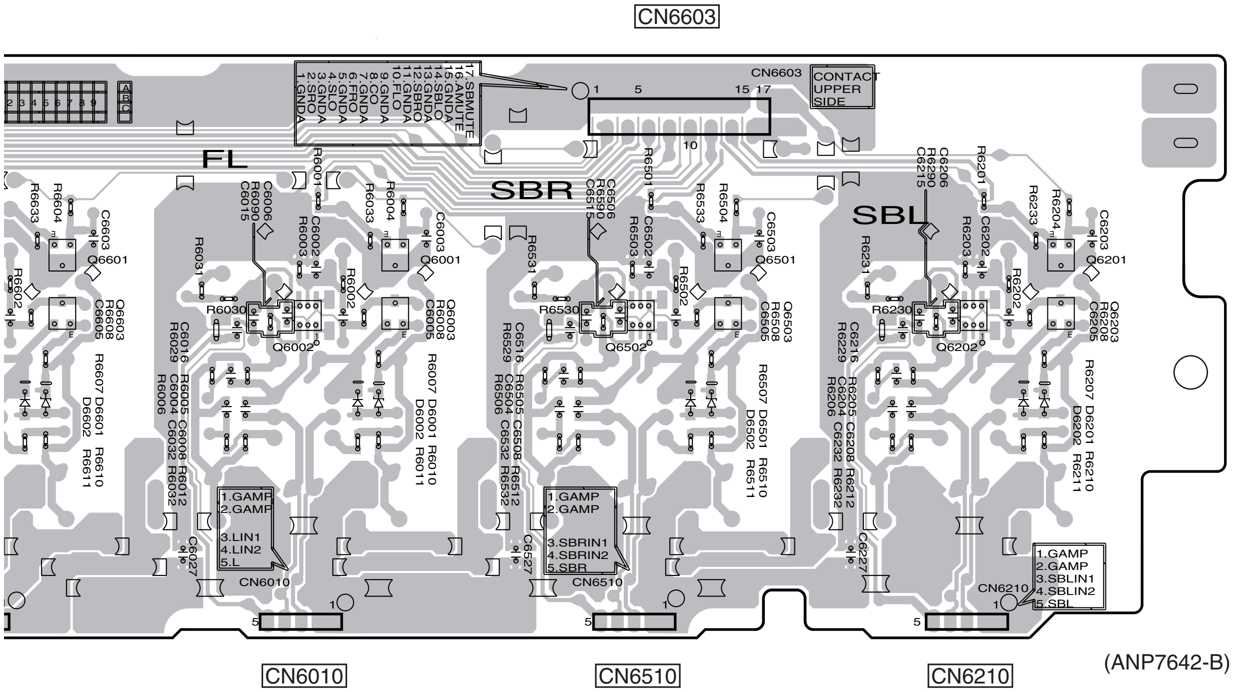
D


LF
SR
SL
FR
C
Q6402
Q6102
Q6302
Q6602
Q6401
Q6101
Q6301
Q6601
1.GAMP
2.GAMP
3.SRIN1
4.SRIN2
5.SR
1.GAMP
2.GAMP
3.SLIN1
4.SLIN2
5.SL
1.GAMP
2.GAMP
3.RIN1
4.RIN2
5.R
1.-VH
2.+VH
3.GAMP
4.GAMP
5.CIN1
6.CIN2
7.C
CN6410
CN6110
CN6310
CN6610

E

F

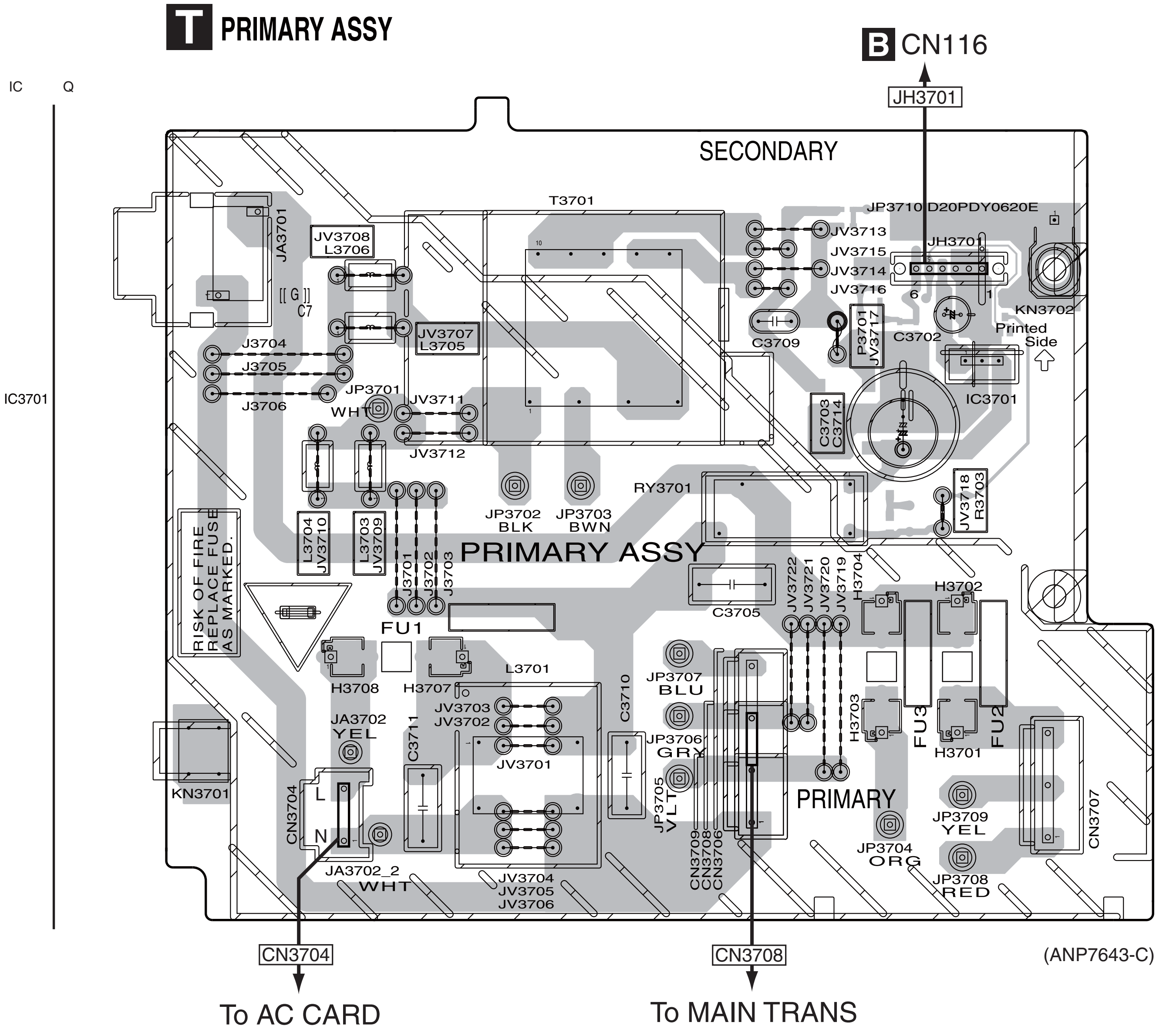
SIDE B


CN6603
CN6603
CONTACT
UPPER
SIDE
1 5 15 17
10
17.SBMUTE
16.AMUTE
15.GNDA
14.SBLO
13.GNDA
12.SBRO
11.GNDA
10.FLO
9.GNDA
8.CO
7.GNDA
6.FRO
5.GNDA
4.SLO
3.GNDA
2.SRO
1.GNDA
FL
SBR
SBL
R6001
C6006
R6090
C6015
C6002
R6003
R6033
R6004
C6003
Q6001
R6031
R6030
R6002
Q6002
Q6003
R6008
C6005
C6016
R6029
R6005
C6008
R6012
C6004
C6032
R6032
R6006
R6007
D6001
R6010
D6002
R6011
R6604
R6633
C6603
Q6601
R6602
Q6603
R6608
C6605
R6607
D6601
R6610
D6602
R6611
1.GAMP
2.GAMP
3.LIN1
4.LIN2
5.L
CN6010
C6027
R6501
C6506
R6590
C6515
R6503
C6502
R6531
R6533
R6504
C6503
Q6501
R6502
R6530
Q6502
Q6503
R6508
C6505
C6516
R6529
R6505
C6504
C6508
C6532
R6512
R6506
C6532
R6507
D6501
R6510
D6502
R6511
1.GAMP
2.GAMP
3.SBRIN1
4.SBRIN2
5.SBR
CN6510
C6527
R6201
C6206
R6290
C6215
C6202
R6203
R6233
R6204
C6203
Q6201
R6231
R6202
R6230
Q6202
Q6203
R6208
C6205
C6216
R6229
R6205
C6208
R6212
C6204
C6232
R6232
R6206
R6207
D6201
R6210
D6202
R6211
C6227
1.GAMP
2.GAMP
3.SBLIN1
4.SBLIN2
5.SBL
CN6210
1
5
CN6010
CN6510
CN6210

(ANP7642-B)

11.14 PRIMARY ASSY

SIDE A **SIDE A**

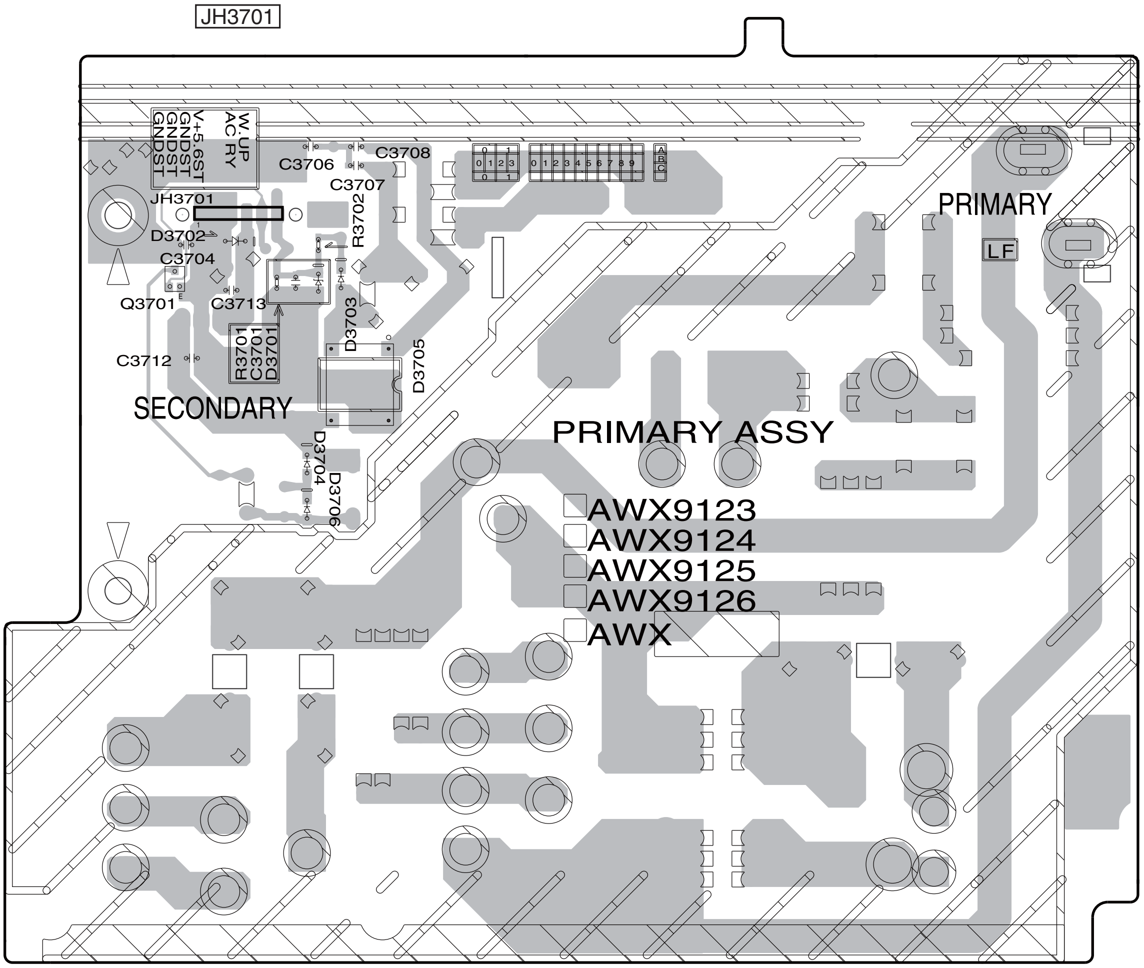


T PRIMARY ASSY
B CN116
JH3701
IC
Q
IC3701
SECONDARY
T3701
JP3710 D20PDY0620E
JV3713
JV3715
JV3714
JV3716
JH3701
6
1
KN3702
Printed Side
C3709
P3701
JV3717
C3702
IC3701
JA3701
JV3708
L3706
[[G]]
C7
JV3707
L3705
J3704
J3705
J3706
JP3701
WHT
JV3711
JV3712
C3703
C3714
RY3701
JP3702
BLK
JP3703
BWN
JV3718
R3703
L3704
JV3710
L3703
JV3709
J3701
J3702
J3703
PRIMARY ASSY
RISK OF FIRE REPLACE FUSE AS MARKED.
FU1
C3705
JV3722
JV3721
JV3720
JV3719
H3704
H3702
H3708
H3707
L3701
JP3707
BLU
C3710
JV3703
JV3702
JV3701
JA3702
YEL
C3711
JP3706
GRY
H3703
FU3
FU2
H3701
KN3701
CN3704
L
N
JP3705
VLT
PRIMARY
JP3709
YEL
CN3707
JP3704
ORG
JA3702_2
WHT
JV3704
JV3705
JV3706
CN3709
CN3708
CN3706
JP3708
RED
CN3704
CN3708
(ANP7643-C)
To AC CARD
To MAIN TRANS

T PRIMARY ASSY

IC	Q
	Q3701

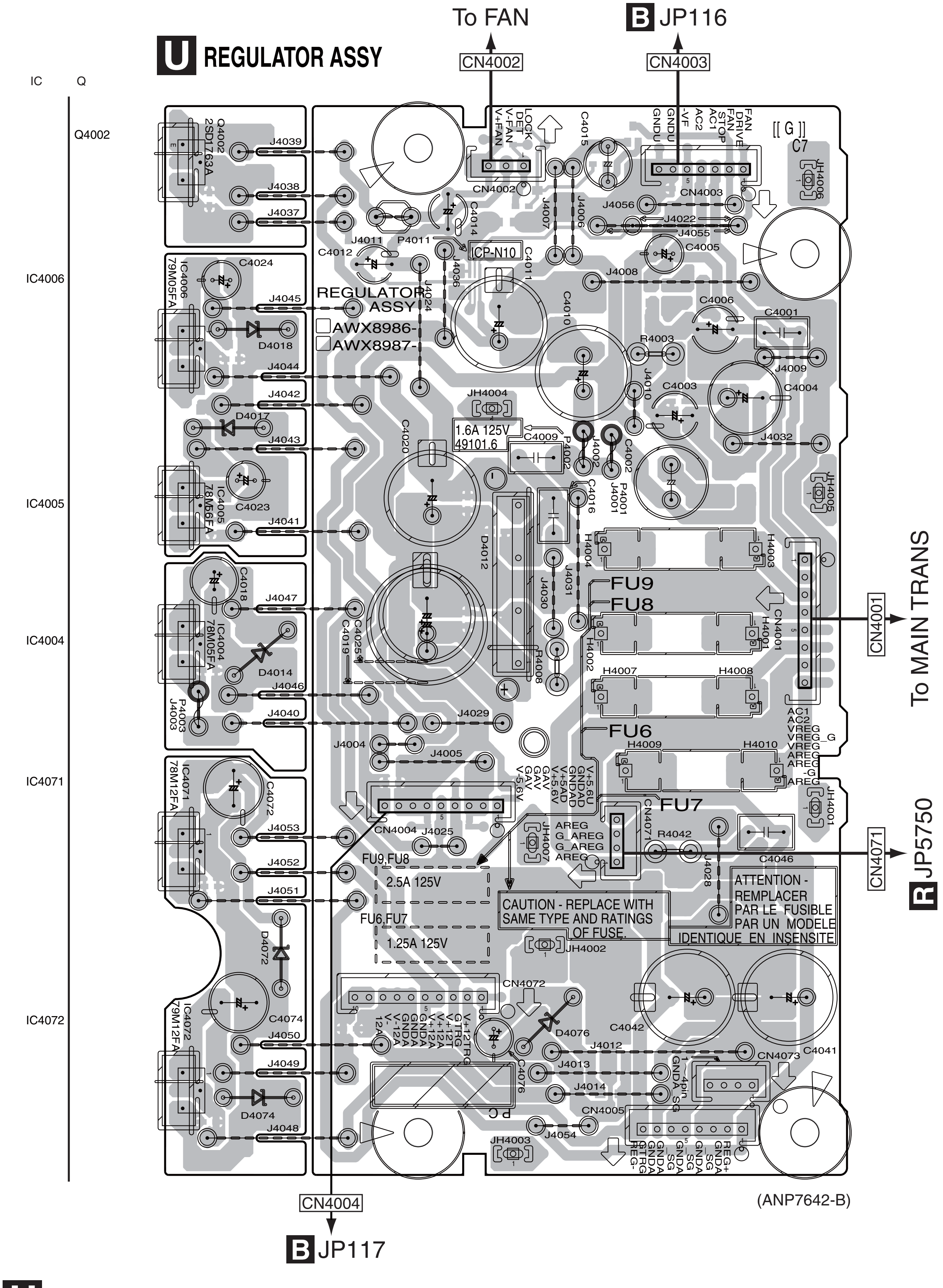
JH3701


W. UP
AC RY
V+5.6ST
GNDST
GNDST
GNDST
JH3701
C3706
C3708
C3707
R3702
D3702
C3704
Q3701
C3713
R3701
C3701
D3701
D3703
D3705
C3712
SECONDARY
D3704
D3706
PRIMARY
LF
PRIMARY ASSY
AWX9123
AWX9124
AWX9125
AWX9126
AWX

(ANP7643-C)

11.15 REGULATOR ASSY

SIDE A **SIDE A**


To FAN
B JP116
U REGULATOR ASSY
CN4002
CN4003
IC
Q
Q4002
IC4006
IC4005
IC4004
IC4071
IC4072
Q4002 2SD1763A
IC4006 79M05FA
IC4005 78M56FA
IC4004 78M05FA
IC4071 78M12FA
IC4072 79M12FA
LOCK DET V-FAN V+FAN
FAN DRIVE FAN STOP AC1 AC2 -VF GNDU GNDU
REGULATOR ASSY
AWX8986-
AWX8987-
ICP-N10
1.6A 125V 49101.6
FU9
FU8
FU6
FU7
To MAIN TRANS
CN4001
AC1 AC2 VREG VREG_G VREG AREG AREG -G AREG
R JP5750
CN4071
AREG G_AREG G_AREG AREG
V+5.6U GNDAD GNDAD V+5AD V+5.6V GAV GAV V-5.6V
CN4004
FU9,FU8 2.5A 125V
FU6,FU7 1.25A 125V
CAUTION - REPLACE WITH SAME TYPE AND RATINGS OF FUSE.
ATTENTION - REMPLACER PAR LE FUSIBLE PAR UN MODELE IDENTIQUE EN INSENSITE
CN4072
V+12TRG GTRG V+12T V+12A GNDA GNDA V-12A 12A
CN4073
CN4005
GNDA SG 4pin
REG+ GNDA SG GNDA SG GNDA SG GNDA GTRG REG-
JH4001 JH4002 JH4003 JH4004 JH4005 JH4006 JH4007
C4001 C4002 C4003 C4004 C4005 C4006 C4009 C4010 C4011 C4012 C4014 C4015 C4016 C4018 C4019 C4020 C4023 C4024 C4025 C4041 C4042 C4046 C4072 C4074 C4076
D4012 D4014 D4017 D4018 D4072 D4074 D4076
R4003 R4008 R4042
H4001 H4002 H4003 H4004 H4007 H4008 H4009 H4010
P4001 P4002 P4003 P4011
J4001 J4002 J4003 J4004 J4005 J4006 J4007 J4008 J4009 J4010 J4011 J4012 J4013 J4014 J4022 J4024 J4025 J4028 J4029 J4030 J4031 J4032 J4036 J4037 J4038 J4039 J4040 J4041 J4042 J4043 J4044 J4045 J4046 J4047 J4048 J4049 J4050 J4051 J4052 J4053 J4054 J4055 J4056
[[G]] C7
(ANP7642-B)
B JP117

SIDE B **SIDE B**

A

U REGULATOR ASSY

IC Q

Q4003 Q4002

Q4001

IC4006

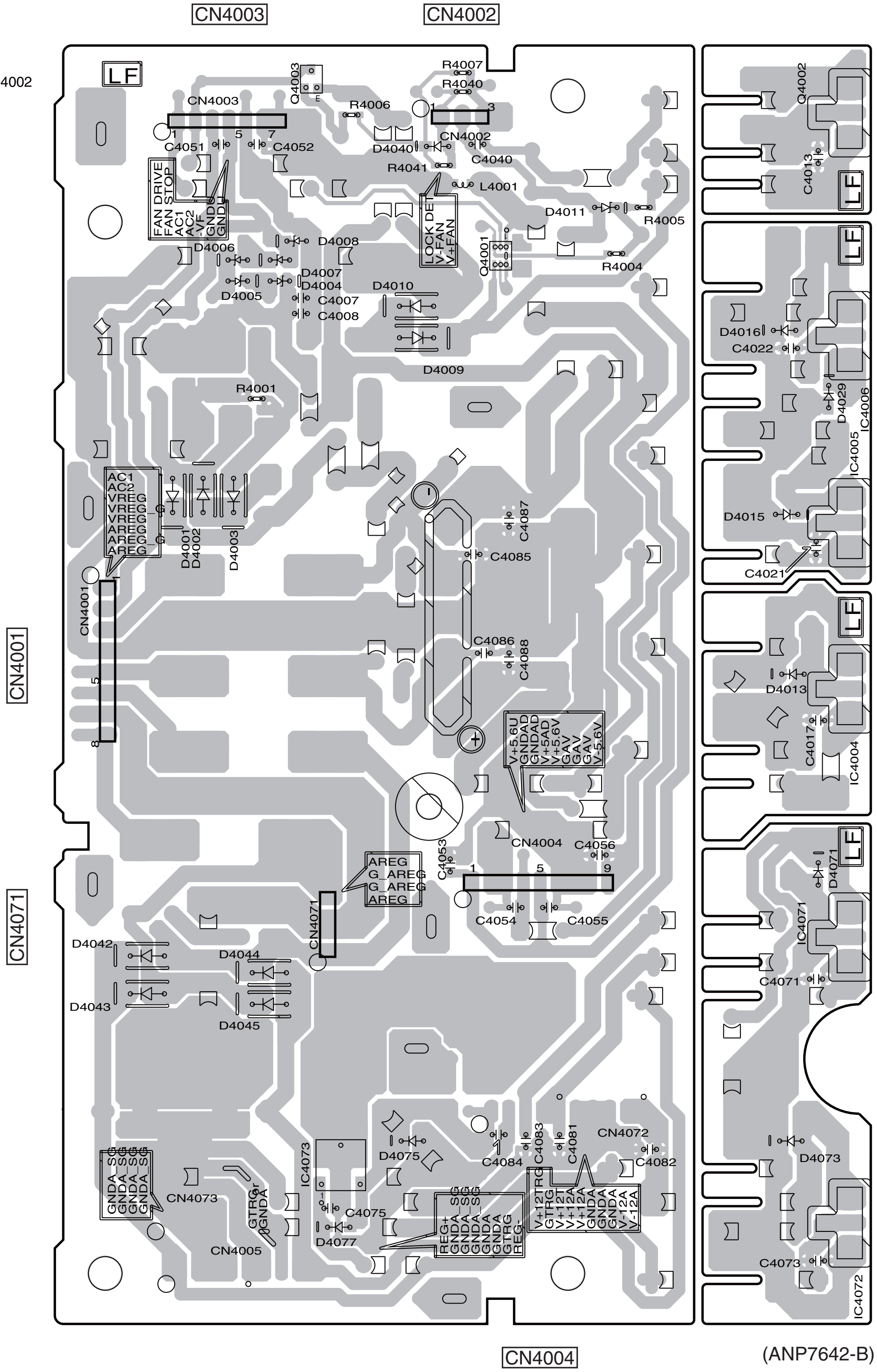
IC4005

IC4004

IC4071

IC4073

IC4072


CN4003
CN4002
CN4001
CN4071
CN4004
LF
Q4003
R4007
R4040
CN4003
R4006
CN4002
C4051
C4052
D4040
C4040
R4041
L4001
FAN DRIVE
FAN STOP
AC1
AC2
VF
GND
GND
LOCK DET
V-FAN
V+FAN
D4011
R4005
Q4001
R4004
D4006
D4008
D4007
D4004
D4005
C4007
C4008
D4010
D4009
R4001
AC1
AC2
VREG
VREG_G
VREG
AREG
AREG_G
AREG
D4001
D4002
D4003
C4087
C4085
C4086
C4088
V+5.6U
GNDAD
GNDAD
V+5AD
V+5.6V
GAV
GAV
V-5.6V
CN4004
C4056
C4053
C4054
C4055
AREG
G_AREG
G_AREG
AREG
D4042
D4043
D4044
D4045
D4075
C4084
C4083
C4081
CN4072
C4082
GNDA_SG
CN4073
GTRG
GNDA
IC4073
C4075
D4077
CN4005
REG+
GNDA_SG
GTRG
REG-
V+12TRG
V+12T
V+12A
V+12A
GNDA
V-12A
V-12A
Q4002
C4013
D4016
C4022
D4029
IC4006
IC4005
D4015
C4021
D4013
C4017
IC4004
D4071
IC4071
C4071
D4073
C4073
IC4072

B

C

D

E

(ANP7642-B)

F

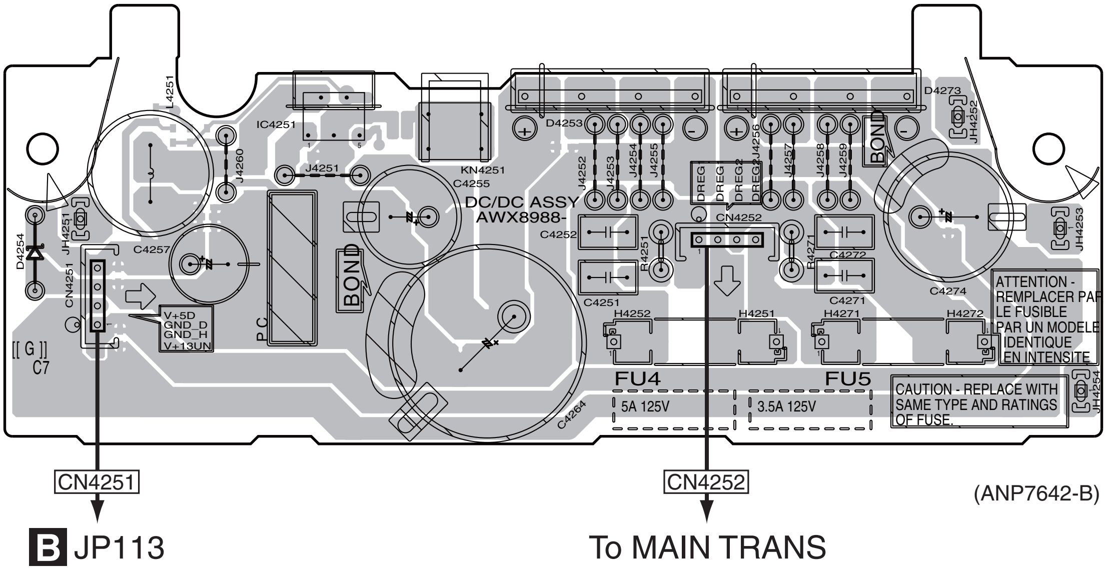
11.16 DC/DC ASSY

SIDE A **SIDE A**

V DC/DC ASSY

IC Q

IC4251


L4251
IC4251
J4260
J4251
KN4251
C4255
D4253
J4252
J4253
J4254
J4255
J4256
J4257
J4258
J4259
D4273
JH4252
BOND
DC/DC ASSY
AWX8988-
C4252
DREG
DREG
DREG2
DREG2
CN4252
R4251
R4271
C4272
C4271
C4251
C4274
JH4253
D4254
JH4251
CN4251
C4257
V+5D
GND_D
GND_H
V+13UN
P.C
BOND
[[G]]
C7
H4252
H4251
H4271
H4272
FU4
FU5
5A 125V
3.5A 125V
C4264
ATTENTION - REMPLACER PAR LE FUSIBLE PAR UN MODELE IDENTIQUE EN INTENSITE
CAUTION - REPLACE WITH SAME TYPE AND RATINGS OF FUSE.
JH4254
CN4251
CN4252
B JP113
To MAIN TRANS

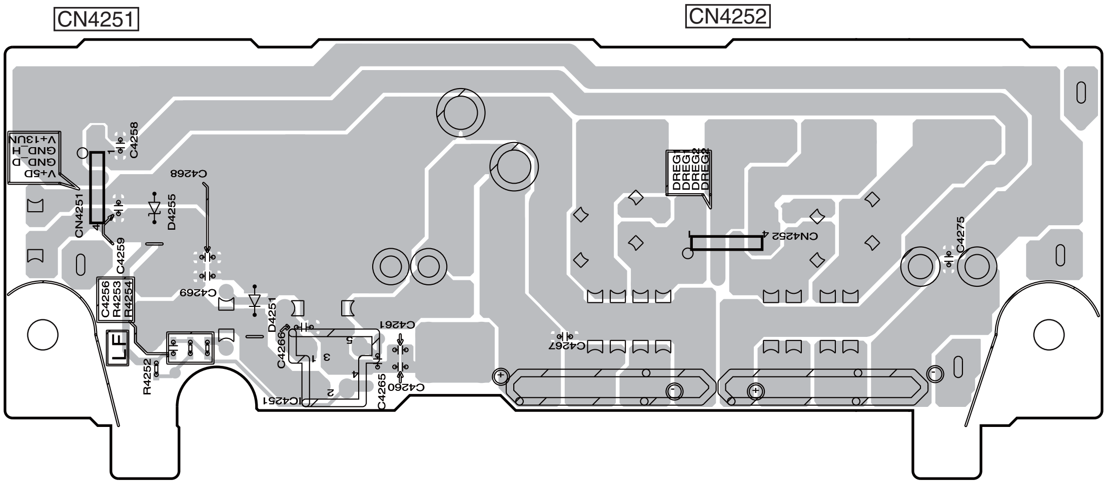
(ANP7642-B)

SIDE B **SIDE B**

V DC/DC ASSY

IC Q

IC4251

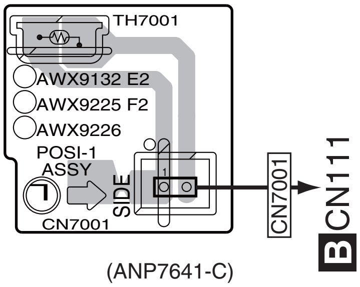

CN4251
CN4252
V+13UN
GND_H
GND_D
V+5D
C4258
C4268
D4255
CN4251
C4259
C4256
R4253
R4254
C4269
D4251
C4266
C4261
C4267
R4252
IC4251
C4265
C4260
DREG
DREG
DREG2
DREG2
CN4252
C4275
L.F

(ANP7642-B)

11.17 POSI1, POSI2 and POSI3 ASSYS

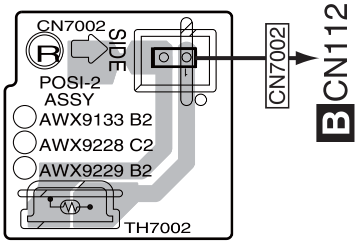
SIDE A

W POSI-1 ASSY


TH7001
AWX9132 E2
AWX9225 F2
AWX9226
POSI-1
ASSY
L
SIDE
1
CN7001
CN7001
B CN111

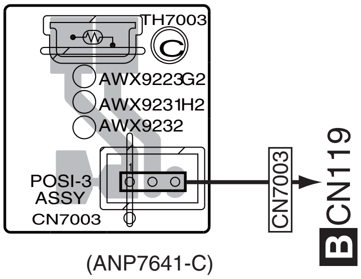
(ANP7641-C)

X POSI-2 ASSY


CN7002
R
SIDE
POSI-2
ASSY
AWX9133 B2
AWX9228 C2
AWX9229 B2
TH7002
1
CN7002
B CN112

(ANP7641-C)

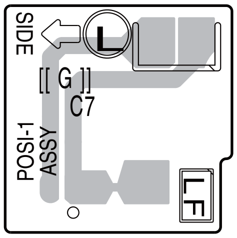
Y POSI-3 ASSY


TH7003
C
AWX9223G2
AWX9231H2
AWX9232
POSI-3
ASSY
CN7003
CN7003
B CN119

(ANP7641-C)

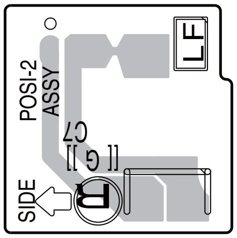
SIDE B

W POSI-1 ASSY


SIDE
L
[[G]]
C7
POSI-1
ASSY
LF

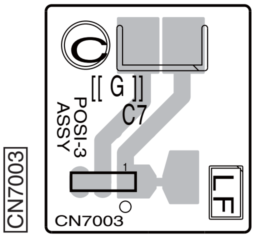
(ANP7641-C)

X POSI-2 ASSY


LF
POSI-2
ASSY
C7
[[G]]
SIDE
R

(ANP7641-C)

Y POSI-3 ASSY


C
[[G]]
C7
POSI-3
ASSY
1
LF
CN7003
CN7003

(ANP7641-C)

12. PCB PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47 k ohm (tolerance is shown by J = 5%, and K = 10%).

560 Ω → 56 × 10^1 → 561 .... RD1/4PU $\boxed{5}\ \boxed{6}\ \boxed{1}$ J
47 kΩ → 47 × 10^3 → 473 .... RD1/4PU $\boxed{4}\ \boxed{7}\ \boxed{3}$ J
0.5 Ω → R50 .... RN2H $\boxed{R}\ \boxed{5}\ \boxed{0}$ K
1 Ω → 1R0 .... RS1P $\boxed{1}\ \boxed{R}\ \boxed{0}$ K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62 kΩ → 562 × 10^1 → 5621 .... RN1/4PC $\boxed{5}\ \boxed{6}\ \boxed{2}\ \boxed{1}$ F

- *Meaning of the figures and others in the parentheses in the parts list.*

Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.
IC 301 (A, 91, 111) IC NJM2068V

LIST OF ASSEMBLIES

Mark	No. Description	Part No.
	1..MAIN ASSY(VSX-03TXH)	AWK8052
	1..MAIN ASSY(VSX-9130TXH)	AWK8069
	1..MAIN ASSY(VSX-01TXH)	AWK8056
	1..MAIN ASSY(VSX-1018AH)	AWK8057
	1..AUDIO IN ASSY	AWK8050
NSP	1..COMPLEX ASSY(VSX-03TXH, 01TXH)	AWK8046
	1..COMPLEX ASSY(VSX-9130TXH, 1018AH)	AWK8067
	2..DISPLAY ASSY(VSX-03TXH, 01TXH)	AWX9117
	2..DISPLAY ASSY(VSX-9130TXH, 1018AH)	AWX9216
	2..POWER SW ASSY	AWX9118
	2..MULTI JOG ASSY	AWX9119
	2..BINDER ASSY	AWX9120
	2..FRONT IN ASSY	AWX9121
	2..HEADPHONE ASSY	AWX9122
	2..PRIMARY ASSY	AWX9123
NSP	1..LOCAL POWER ASSY(Except VSX-1018AH)	AWK8041
NSP	1..LOCAL POWER ASSY(VSX-1018AH)	AWK8043
	2..DIODE ASSY	AWX8985
	2..REGULATOR ASSY	AWX8986
	2..DC/DC ASSY	AWX8988
	2..PRE-STAGE AMP	AWX8989
	2..INTERFACE ASSY(Except VSX-1018AH)	AWX8990
	2..INTERFACE ASSY(VSX-1018AH)	AWX8993
NSP	1..AMP ASSY	AWK8037
	2..POWER AMP ASSY	AWX8983
	2..POSI1 ASSY	AWX9132
	2..POSI2 ASSY	AWX9133
	2..BIND_L_FRONT ASSY	AWX9217
	2..BIND_L_BACK ASSY	AWX9218
	2..BIND_R_FRONT ASSY	AWX9219
	2..BIND_R_BACK ASSY	AWX9220
	2..POSI3 ASSY	AWX9223
	1..HDMI & DVC ASSY(VSX-03TXH, 9130TXH)	AWX9170
	1..HDMI & DVC ASSY(VSX-01TXH, 1018AH)	AWX9233
	1..DSP & USB ASSY(VSX-03TXH, 9130TXH)	AWX9175
	1..DSP & USB ASSY(VSX-01TXH, 1018AH)	AWX9239
	1..FM/AM TUNER UNIT	AXX7250

CONTRAST OF PCB ASSEMBLIES

B MAIN ASSY

AWK8052, AWK8069, AWK8056 and AWK8057 are constructed the same except for the following:

Mark	Symbol and Description	AWK8052	AWK8069	AWK8056	AWK8057
	IC1201 Logic IC	TC74HC4051AFT	TC74HC4051AFT	TC74HC4051AFT	Not used
	IC1202 Logic IC	TC74HC4051AFT	TC74HC4051AFT	TC74HC4051AFT	Not used
	IC1203	TC74HC4053AFT	TC74HC4053AFT	TC74HC4053AFT	Not used
	IC1205 Video Amp IC	LA7109	LA7109	LA7109	Not used
	IC1271	LA7213	LA7213	LA7213	Not used
	Q1201,Q1202,Q1271	2SA1576A(QR)	2SA1576A(QR)	2SA1576A(QR)	Not used
	Q1277 Chip Transistor	DTC114EUA	DTC114EUA	DTC114EUA	Not used
	Q1278 Digital Transistor	DTC124EUA	DTC124EUA	DTC124EUA	Not used
	D1201,D1202	DAN202U	DAN202U	DAN202U	Not used
	D1277	1SS355	1SS355	1SS355	Not used

Mark	Symbol and Description	AWK8052	AWK8069	AWK8056	AWK8057
	JA1001,JA1002,JA1003 Comb.jack(2s+2p)	AKB7200	AKB7200	AKB7200	Not used
	JA1004 Comb.jack(s+1p)	AKB7199	AKB7199	AKB7199	Not used
	JA1101 Comb.jack(2p)	Not used	Not used	Not used	AKB7198
	JA1102 Comb.jack(2p)	Not used	Not used	Not used	AKB7198
	JA1103 Comb.jack(2p)	Not used	Not used	Not used	AKB7198
	JA1104 Comb.jack(1p)	Not used	Not used	Not used	AKB7197
	R180	RS1/16S473J	Not used	RS1/16S473J	Not used
	R182	RS1/16S473J	RS1/16S333J	RS1/16S473J	Not used
	R146,R183	Not used	RS1/16S104J	RS1/16S473J	RS1/16S473J
	R1201,R1202,R1203,R1204,R1205,R1206	RS1/16S750J	RS1/16S750J	RS1/16S750J	Not used
	R1207,R1208	RS1/16S750J	RS1/16S750J	RS1/16S750J	Not used
	R1225,R1226,R1227,R1229	RS1/16S103J	RS1/16S103J	RS1/16S103J	Not used
	R1231,R1232	RS1/16S0R0J	RS1/16S0R0J	RS1/16S0R0J	Not used
	R1233,R1234	RS1/16S473J	RS1/16S473J	RS1/16S473J	Not used
	R1236,R1237,R1239,R1240,R1241,R1242	RS1/16S750J	RS1/16S750J	RS1/16S750J	Not used
	R1251,R1255	RS1/16S154J	RS1/16S154J	RS1/16S154J	Not used
	R1252,R1256,R1272	RS1/16S124J	RS1/16S124J	RS1/16S124J	Not used
	R1253,R1257,R1274	RS1/16S102J	RS1/16S102J	RS1/16S102J	Not used
	R1263,R1264	RS1/16S0R0J	RS1/16S0R0J	RS1/16S0R0J	Not used
	R1273	RS1/16S473J	RS1/16S473J	RS1/16S473J	Not used
	R1275	RS1/16S331J	RS1/16S331J	RS1/16S331J	Not used
	R1276	RS1/16S224J	RS1/16S224J	RS1/16S224J	Not used
	R1277	RS1/16S103J	RS1/16S103J	RS1/16S103J	Not used
	R1278	RS1/16S473J	RS1/16S473J	RS1/16S473J	Not used
	R1280	RS1/16S223J	RS1/16S223J	RS1/16S223J	Not used
	C1201,C1202,C1203,C1204,C1205,C1206,C1207	CKSRYB104K16	CKSRYB104K16	CKSRYB104K16	Not used
	C1208,C1209,C1210,C1223,C1224,C1226,C1229	CKSRYB104K16	CKSRYB104K16	CKSRYB104K16	Not used
	C1225,C1227,C1251,C1256,C1276	CEAT101M10	CEAT101M10	CEAT101M10	Not used
	C1235,C1237,C1239,C1240,C1241,C1242	CCSRCH181J50	CCSRCH181J50	CCSRCH181J50	Not used
	C1253,C1254,C1257,C1258,C1277	CKSRYB103K50	CKSRYB103K50	CKSRYB103K50	Not used
	C1271	CEAT221M16	CEAT221M16	CEAT221M16	Not used
	C1483,C1484,C1485	CKSRYB104K16	CKSRYB104K16	CKSRYB104K16	Not used
	C1275 Elect. Capacitor	CEAT3R3M50	CEAT3R3M50	CEAT3R3M50	Not used
	C1278 Elect. Capacitor	CEAT220M50	CEAT220M50	CEAT220M50	Not used

C DSP & USB ASSY

AWX9175 and AWX9239 are constructed the same except for the following:

Mark	Symbol and Description	AWX9175	AWX9239
	JA104 Opt. Link In	GP1FAV51RKBF	Not used
	R124 Resistor	RS1/16SS101J	Not used
	C118 Capacitor	CKSSYB104K10	Not used

E INTERFACE ASSY

AWX8990 and AWX8993 are constructed the same except for the following:

Mark	Symbol and Description	AWX8990	AWX8993
	IC4821 RS232 IC	HIN202EIBNZ	Not used
	Q4831	2SC4081(QRS)	Not used
	Q4881,Q4883,Q4893	2SA1576A(QR)	Not used
	Q4882,Q4892	RT1N241M	Not used
	D4881	UDZS5R1(B)	Not used
	D4822	1SS352	Not used
	L4881 Chip Solid Inductor	ATL7002	Not used
	JA4821 9p D-sub Socket	AKP1213	Not used
	JA4881,JA4891	VKB1243	Not used
	CN4821 7p Connector	Not used	VKN1267

Mark	Symbol and Description	AWX8990	AWX8993
	R4821,R4822,R4823,R4824	RS1/16S101J	Not used
	R4825,R4828	RS1/16S224J	Not used
	R4826	RS1/16S474J	Not used
	R4827,R4884	RS1/16S103J	Not used
	R4829	RS1/16S0R0J	Not used
	R4830	Not used	RS1/16S103J
	R4881	RS1/16S180J	Not used
	R4882	RS1/16S180J	Not used
	R4886,R4887,R4896,R4897	RS1/16S472J	Not used
	C4824,C4825,C4826,C4828,C4882	CKSRYB104K16	Not used
	C4829,C4831,C4883,C4893	CKSRYB103K50	Not used
	C4830	CCSRCH331J50	Not used
	C4894	CKSRYB102K50	Not used
	C4895	CKSRYB472K50	Not used

F HDMI & DVC ASSY

AWX9170 and AWX9233 are constructed the same except for the following:

Mark	Symbol and Description	AWX9170	AWX9233
	IC202 Zero Delay Buffer	ICS571MLF	Not used
	IC203	TC7WH74FU	Not used
	IC204,IC205	TC7WH157FU	Not used
	Q201 Chip Digital Trans.	DTA124EUA	Not used
	L201 Inductor	CTF1379	Not used
	L202,L203,L204 Chip Solid Inductor	ATL7002	Not used
	R207	RS1/16SS221J	Not used
	R208	RS1/16SS680J	Not used
	R209	RS1/16SS151J	Not used
	R210,R211	Not used	RS1/16SS0R0J
	R212,R213	RS1/16SS101J	Not used
	R214	RS1/16SS473J	Not used
	R582,R583	RS1/16SS0R0J	Not used
	C203,C204 Capacitor	CKSSYB103K16	Not used
	C205,C206,C207 Capacitor	CKSSYB104K10	Not used
	C202	CEVW4R7M35	Not used

M DISPLAY ASSY

AWX9117 and AWX9216 are constructed the same except for the following:

Mark	Symbol and Description	AWX9117	AWX9216
	Q3009,Q3011 Digital Transistor	DTC143EUA	Not used
	D3015,D3019 LED(blue)	SLR343BC4T(JKLM)	Not used
	D3017 LED(white)	SLR343WBCT(MNPQ)	SLR343BC4T(JKLM)
	R3139,R3155	RS1/16S151J	Not used
	R3148	RS1/16S561J	RS1/16S151J

PCB PARTS LIST FOR VSX-03TXH/KUXJ/CA UNLESS OTHER WISE NOTED

A AUDIO IN ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC 501		BD3473KS2
	IC 502		TC4066BFT
	IC 503		M61545FP
	IC 701,702,741,761		NJM4565MD
	IC 781,801,821		NJM4565MD
	Q 519,821,822,841		IMX25
	Q 681		2SD1664
	Q 701		UMD2N
	Q 842,861,862,881		IMX25
	Q 882		IMX25
	D 501,502		DAN217U
	D 581-586		UDZS6R2(B)
	D 681		UDZS10(B)

MISCELLANEOUS

Mark	No.	Description	Part No.
	JA 501	SOCKET	BKP1127
	JA 502,505-507	PIN JACK(4P)	AKB7048
	JA 503,504	PIN JACK(6P)	AKB7050
	CN 501	CONNECTOR	CKS3384
	CN 502	17P SOCKET	XKP3059
	CN 503	15P SOCKET	XKP3090
	CN 504	23P CONNECTOR	52044-2345

Mark	No.	Description	Part No.
	CN 505	CONNECTOR	CKS3382
	CN 506,507	11P CONNECTOR	52044-1145
	JH 1	PCB BINDER	VEF1040

RESISTORS

Mark	No.	Description	Part No.
	R 682		RD1/4MUF391J
	Other Resistors		RS1/16S###J

CAPACITORS

Mark	No.	Description	Part No.
	C 501,502,505,506		CCSRCH101J50
	C 503,504,507,508		CCSRCH221J50
	C 509-512,515-518		CCSRCH101J50
	C 513,514,833		CCSRCH221J50
	C 519,520,705-708		CCSRCH331J50
	C 521,522,525,526		CCSRCH151J50
	C 529-532,535-538		CCSRCH151J50
	C 539,540,565,566		CCSRCH101J50
	C 541,542,545,546		CEAT470M25
	C 543,544,547,548		CEAT100M50
	C 549-552,555-558		CEAT470M25
	C 553,554,568,709		CEAT100M50
	C 559-562,701,702		CEAT2R2M50
	C 567,597-599,699		CKSRYB103K50
	C 569,632-635,639		CKSRYB104K16
	C 591,592		CEAT101M25
	C 601,602,621-628		CEAT470M25
	C 631,636		CKSRYB222K50
	C 637,638,829,830		CCSRCH101J50
	C 641,719,720,832		CKSRYB104K16
	C 684		CEAT101M16
	C 697		CKSRYB105K16
	C 698		CKSRYB104K50
	C 703,704,825,826		CCSRCH471J50
	C 710,713,714,749		CEAT100M50
	C 717,718,721,722		CKSRYB103K50
	C 741,742,761,762		CEAT2R2M50
	C 743,745,763-766		CCSRCH331J50
	C 744		CKSRYB223K50
	C 746,753,754,773		CKSRYB103K50
	C 747,767,768,787		CCSRCH391J50
	C 748		CKSRYB562K50
	C 750,769,770,789		CEAT100M50
	C 751,752,771,772		CKSRYB472K50
	C 774,793,794,813		CKSRYB103K50
	C 781,782,801,802		CEAT2R2M50
	C 783-786,803-806		CCSRCH331J50
	C 788,807,808		CCSRCH391J50
	C 790,809,810		CEAT100M50
	C 791,792,811,812		CKSRYB472K50
	C 814,831,871		CKSRYB103K50
	C 827,828,847,848		CEAT470M25
	C 834,835,872		CKSRYB104K16
	C 836		CEAT4R7M50
	C 845,846,865,866		CCSRCH471J50
	C 849,850,869,870		CCSRCH101J50
	C 867,868,887,888		CEAT470M25
	C 885,886		CCSRCH471J50
	C 889,890		CCSRCH101J50
	C 902-909		CCSRCH391J50

B MAIN ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC 101		PEG479A8
	IC 201		BU4842F
	IC 202		BR24L64F-W
	IC 301,306		TC74VHCT125AFTS1
	IC 302		TC74VHC02FTS1
	IC 303,401		TC74VHC08FTS1
	IC 304,305		TC74VHC125FTS1
	IC 402		TC74VHCT08AFTS1
	IC 1001,1002,1201,1202		TC74HC4051AFT
	IC 1003,1203		TC74HC4053AFT
	IC 1004,1205		LA7109
	IC 1005,1405		BU4094BCFV
	IC 1006		PDC162A
	IC 1271		LA7213
	IC 1401,1402		TC74LVX4052FT
	IC 1403		TC74LVX4053FT
	IC 1404		NJM2581M
	Q 101,102		UMB1N
	Q 103-105,282		DTA124EUA
	Q 281,1278,1505,1507		DTC124EUA
	Q 301-303,1506,1508		DTA124EUA
	Q 381,1277		DTC114EUA
	Q 411,1002,1503		2SC4081
	Q 1001,1201,1202,1271		2SA1576A
	Q 1403-1405,1504		2SA1576A
	Q 1501		2SD1664
	Q 1502		2SB1132
	Q 1509		DTC124EUA
	Q 1510		DTA124EUA
	D 291,1005		DAP202U
	D 292,304,1001-1003		DAN202U
	D 296		UDZS5R1(B)
	D 303,334,1004,1277		1SS355
	D 305		RB520S-30
	D 411		UDZS3R9(B)
	D 1201,1202		DAN202U

MISCELLANEOUS

Mark	No.	Description	Part No.
	L 101,196	CHIP SOLID INDUCTOR	ATL7002
	L 461,462	INDUCTOR	CTF1386
	L 1001	CHIP COIL	LCYA330J2520
	JA 1001-1003	COMB.JACK(2S+2P)	AKB7200
	JA 1004	COMB.JACK(S+1P)	AKB7199
	JA 1401,1402	6P RCA PINJACK	AKB7201
	JA 1403	PIN JACK(1P)	AKB7175
	X 101	RESONATOR (24MHz)	CSS1716
	X 1001	CRYSTAL RESONATOR (14.31818MHz)	ASS7080
	CN 101,102,104	30P SOCKET	XKP3092
	CN 103,105	23P PLUG	XKM3006
	CN 106,108	19P PLUG	XKM3005
	CN 107	11P PLUG	XKM3009
	CN 109	33P CONNECTOR	52044-3345
	CN 110	CONNECTOR	CKS3376
	CN 111,112	PLUG(2P)	KM200NA2
	CN 116	6PJUMPER CONNECTOR	52151-0610
	CN 117	10P CONNECTOR	VKN1414
	CN 119	PLUG(3P)	KM200NA3

Mark	No.	Description	Part No.
	JH 101	PCB BINDER	VEF1040
	JP 113	4P HOUSING WIRE ASSY	ADX7652
	JP 116	CONNECTOR ASSY	PF07PG-R40
	JP 117	CONNECTOR ASSY	PF09PG-R35

RESISTORS

Mark	No.	Description	Part No.
	All Resistors		RS1/16S###J

CAPACITORS

Mark	No.	Description	Part No.
	C 101,104-107,109		CKSRYB104K16
	C 102,117		CEAT101M16
	C 108,116,118,126		CKSRYB103K50
	C 123,129-133,141		CKSRYB104K16
	C 124,452,454,464		CKSRYB102K50
	C 140,142		CCSRCH471J50
	C 201		CKSRYB105K16
	C 202,1035,1036,1039		CKSRYB103K50
	C 291,292,421,1063		CKSRYB473K25
	C 296,412,1441,1445		CEAT100M50
	C 301-306,381,401		CKSRYB104K16
	C 382		CEAT471M6R3
	C 402,411,432,451		CKSRYB104K16
	C 453,461-463,471		CKSRYB104K16
	C 465,472		CKSRYB102K50
	C 1005-1010,1013,1014		CKSRYB104K16
	C 1011,1012,1016,1018		CEAT101M10
	C 1020,1022,1024,1026		CCSRCH181J50
	C 1034,1061,1062,1225		CEAT101M10
	C 1041,1201-1210,1223		CKSRYB104K16
	C 1050		CCSRCH561J50
	C 1064		CKSRYB473K25
	C 1065,1066		CCSRCH5R0C50
	C 1067,1068		CCSRCH240J50
	C 1069-1071,1076		CCSRCH101J50
	C 1073,1253,1254,1257		CKSRYB103K50
	C 1074,1075		CKSRYB122K50
	C 1224,1226,1229		CKSRYB104K16
	C 1227,1251,1256,1276		CEAT101M10
	C 1235,1237,1239-1242		CCSRCH181J50
	C 1258,1265,1277,1442		CKSRYB103K50
	C 1271		CEAT221M16
	C 1275		CEAT3R3M50
	C 1278		CEAT220M50
	C 1411-1416,1425,1426		CKSRYB104K16
	C 1420-1424,1487		CEAT101M10
	C 1443,1446,1447,1452		CKSRYB103K50
	C 1451		CEAT100M50
	C 1453,1475		CKSRYB103K50
	C 1481,1483-1485		CKSRYB104K16
	C 1482		CKSRYB561K50
	C 1501-1504		CKSRYB224K10
	C 1505-1507		CKSRYB104K16

C DSP & USB ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC 101		AK4114VQ
⚠	IC 102,802		AAT4618IGV-0.5-1
	IC 103		BU9450KV
	IC 201,202,502,851		TC74VHC157FTS1
	IC 203		TC74LCX157FTS1
	IC 205		TC74VHC125FTS1
	IC 301		HY57V641620FTP-6
	IC 302		AYW7213
	IC 303,304		TC74LCX573FTS1
	IC 305,751		TC7SH32FUS1
	IC 401		DSPA56720AG
	IC 501		TC74LCX08FTS1
	IC 503		TC74VHCU04FT
	IC 591		AK5358AET
	IC 601,621,641,661		WM8728SEDS
	IC 681		AK4388ET
	IC 701		TC74VHC08FTS1
	IC 702,703		TC74VHCT541AFTS1
⚠	IC 704		BD9107FVM
⚠	IC 705		PQ1LAX95MSPQ
	IC 801		PDC180A8
	IC 808		341S2154
	Q 201,561		DTC124EUA
	Q 601		RTQ025P02
	Q 871		2SA1577
	Q 872		DTC143EUA
	D 131,132		UDZS5R6(B)
	D 561		1SS352
	D 591		MA152WK
	D 592		MA152WA

MISCELLANEOUS

Mark	No.	Description	Part No.
	L 101,102	CHIP SOLID INDUCTOR	QTL1013
	L 106,132	CHIP SOLID INDUCTOR	QTL1013
	L 131,706	CHIP SOLID INDUCTOR	ATL7002
	L 201-203	CHIP SOLID INDUCTOR	QTL1013
	L 205,311	CHIP SOLID INDUCTOR	QTL1013
	L 321,331	CHIP SOLID INDUCTOR	QTL1013
	L 341,401	CHIP SOLID INDUCTOR	QTL1013
	L 403,404	CHIP SOLID INDUCTOR	QTL1013
	L 511,521	CHIP SOLID INDUCTOR	QTL1013
	L 531,561	CHIP SOLID INDUCTOR	QTL1013
	L 591,592	CHIP SOLID INDUCTOR	QTL1013
	L 601,621	CHIP SOLID INDUCTOR	QTL1013
	L 641,661	CHIP SOLID INDUCTOR	QTL1013
	L 681	CHIP SOLID INDUCTOR	QTL1013
	L 701-703	CHIP SOLID INDUCTOR	QTL1013
	L 705	POWER INDUCTOR	ATH7047
	L 707	CHIP BEADS	ATL7010
	L 709,710	CHIP SOLID INDUCTOR	ATL7002
	L 751,801	CHIP SOLID INDUCTOR	QTL1013
	L 803	COIL	VTH1043
	L 804	CHIP FERRITE BEADS	VTL1169
	L 851,881	CHIP SOLID INDUCTOR	QTL1013
	JA 101	PIN JACK(2P)	AKB7173
	JA 102-104	OPT. LINK IN	GP1FAV51RKBF
	JA 105	OPT. LINK IN	GP1FAV51TK0F
	JA 131	4P SOCKET	AKP7201
	X 131	CRYSTAL RESONATOR (45.1584MHz)	ASS7065
	X 531	CRYSTAL RESONATOR (24.576MHz)	XSS3003
	X 801	CRYSTAL OSCILLATOR (12MHz)	CSS1614
	X 881	CRYSTAL OSCILLATOR (32.768kHz)	ASS1172
	CN 401	7P CONNECTOR	VKN1411
	CN 601	CONNECTOR	9604S-23C
	CN 701,704	23P SOCKET	XKP3055
	CN 703	CONNECTOR	CKS4898

Mark	No.	Description	Part No.
CN	801	CONNECTOR	AKM1280
CN	891	5P CONNECTOR	VKN1374
JH	801	PCB BINDER	VEF1040

RESISTORS

R	106,722		RS1/16SS1802F
R	109,154,155,208		RAB4CQ101J
R	116,818,819		RS1/16S0R0J
R	209,223,331,332		RAB4CQ470J
R	210,211,222,224		RAB4CQ101J
R	212,213,226		RAB4CQ221J
R	225,333,334,343		RAB4CQ101J
R	227		RAB4CQ390J
R	341,342,446-448		RAB4CQ470J
R	344,431,515,525		RAB4CQ101J
R	411		RAB4CQ220J
R	412		RAB4CQ103J
R	444		RAB4CQ680J
R	450,451,526,528		RAB4CQ470J
R	527,601,621,641		RAB4CQ101J
R	562		RS1/16S4R7J
R	603,623,643,663		RAB4CQ470J
R	661,708-711,851		RAB4CQ101J
R	706,707,712-715		RAB4CQ104J
R	721,723		RS1/16SS4701F
R	724,725		RAB4CQ104J
R	728		RS1/16SS2002F
R	729		RS1/16SS1202F
R	852,857		RAB4CQ470J
R	853		RAB4CQ101J
R	888		RS1/16SS1003F
Other Resistors			RS1/16SS###J

CAPACITORS

Mark	No.	Description	Part No.
C	102,106,108,111		CKSSYB104K10
C	103,110,136,608		CEVW470M6R3
C	104,107,533		CCSRCH471J50
C	105		CKSRYB474K10
C	109,581,707		CKSSYB102K50
C	114,115,441,582		CKSSYB103K16
C	116-119,133-135		CKSSYB104K10
C	125,131,440,562		CEVW101M16
C	129		CKSRYB104K16
C	130		CKSRYB471K50
C	132,708,710		CKSRYB105K10
C	137,140,201,203		CKSSYB104K10
C	138,139,802,803		CCSSCH120J50
C	142,202,204,206		CKSSYB471K50
C	205,209,311,313		CKSSYB104K10
C	312,315,319,332		CKSSYB471K50
C	314,316-318,320		CKSSYB104K10
C	321,331,341,351		CKSSYB104K10
C	342,401,404,407		CKSSYB471K50
C	402,403,405,406		CKSSYB104K10
C	408,410,412		CKSSYB104K10
C	409,411,413,417		CKSSYB471K50
C	414-416,418,419		CKSSYB104K10
C	420,427,430,433		CKSSYB471K50
C	421,426,428,429		CKSSYB104K10
C	431,432,434,436		CKSSYB104K10
C	435,437,512,522		CKSSYB471K50
C	438,511,521,532		CKSSYB104K10
C	439		ACH7275
C	513,806,807,882		CCSSCH5R0C50
C	534,535		CCSSCH8R0D50
C	561,593,596,597		CKSSYB104K10
C	571-580,595,601		CKSSYB471K50
C	590,709,711		DCH1201
C	591,615-617,736		CKSSYB103K16
C	592,613,633,653		CEVW100M16
C	598,606,626,646		CEVW101M16
C	599		CKSQYB225K10
C	602,605,607,609		CKSSYB104K10
C	604,611,621,624		CKSSYB471K50
C	610,622,625,627		CKSSYB104K10
C	614,634,654,674		CCSSCK1R0C50
C	628,648,668		CEVW470M6R3
C	629,630,642,645		CKSSYB104K10
C	641,644,661,664		CKSSYB471K50
C	647,649,650,662		CKSSYB104K10
C	665,667,669,670		CKSSYB104K10
C	666,809,818		CEVW101M16
C	673		CEVW100M16
C	681,683,685,701		CKSSYB104K10
C	682,737,752,808		CKSSYB471K50
C	684		CEVW220M16
C	687		CEVW220M6R3
C	703,705,720		CKSSYB104K10
C	730-735,751,804		CKSSYB104K10
C	801,884		CCSSCH101J50
C	805,810,814,815		CKSSYB104K10
C	811-813,824,827		CKSSYB471K50
C	816,872		CKSQYB105K16
C	817,823,825,828		CKSSYB104K10
C	820		CEVW2R2M50
C	821		CEVW4R7M35
C	822		CEVW1R0M50
C	851,885		CKSSYB104K10
C	852,886		CKSSYB471K50
C	881		CKSSYB105K6R3
C	883		CCSSCH5R0C50

D FRONT IN ASSY

SEMICONDUCTORS

IC	3651		NJM4565MD
Q	3601		HN1C01FU
D	3653,3654,3661		UDZS5R1(B)

MISCELLANEOUS

L	3631	CHIP SOLID INDUCTOR	QTL1013
JA	3601	PIN JACK(3P)	AKB7194
JA	3631	OPTICAL IN MOD.	GP1FMV51RK0F
JA	3641	USB CONNECTOR	XKP3086
JA	3651	JACK	VKB1243
KN	3601,3651	WRAPPING TERMINAL	VNF1084
CN	3601	CONNECTOR	CKS3376
CN	3602	PLUG(9P)	KM200NA9

RESISTORS

All Resistors			RS1/16S###J

CAPACITORS

Mark	No. Description	Part No.
	C 3601,3602	CKSRYB221K50
	C 3603,3604,3652,3656	CEAT100M50
	C 3605,3606,3653	CCSRCH101J50
	C 3609,3610	CEAT470M25
	C 3611,3612,3615,3663	CKSRYB103K50
	C 3613,3614	CEAT330M25
	C 3631,3643	CKSRYB104K16
	C 3644	CEAT101M16
	C 3651	CKSRYB471K50
	C 3654,3655	CCSRCH330J50
	C 3662,3665,3666	CEAT100M50
	C 3664,3671,3681,3687	CKSRYB103K50
	C 3673,3682,3688	CKSRYB223K50
	C 3675	CKSRYB102K50

E INTERFACE ASSY

SEMICONDUCTORS

Mark	No. Description	Part No.
	IC 4821	HIN202EIBNZ
⚠	Q 4801	2SD1858X
⚠	Q 4802	2SB1238X
	Q 4831	2SC4081
	Q 4881,4883,4893	2SA1576A
	Q 4882,4892	RT1N241M
	D 4801,4802	UDZS7R5(B)
	D 4821,4822,4871	1SS352
	D 4881	UDZS5R1(B)

MISCELLANEOUS

Mark	No. Description	Part No.
	L 4821,4841 CHIP SOLID INDUCTOR	QTL1013
	L 4851-4854 CHIP SOLID INDUCTOR	QTL1013
	L 4861,4871 INDUCTOR	CTF1473
	L 4862 INDUCTOR	CTF1385
	L 4872 CHIP SOLID INDUCTOR	QTL1013
	L 4881 CHIP SOLID INDUCTOR	ATL7002
	JA 4821 9P D-SUB SOCKET	AKP1213
	JA 4841,4861,4881,4891 JACK	VKB1243
	JA 4851 MINI JACK(4P) /W SW	XKN3015
	JA 4871 CONNECTOR	CKS4124
	KN 4841,4881 SCREW PLATE	VNE1948
	CN 4801,4803 19P SOCKET	XKP3054
	CN 4802 11P SOCKET	XKP3089
	CN 4804 CONNECTOR	CKS3384
	CN 4805 15P PLUG	XKM3010
	CN 4806 17P PLUG	XKM3007
	CN 4807,4808 21P SOCKET	XKP3091
	CN 4809 11P CONNECTOR	52044-1145

RESISTORS

Mark	No. Description	Part No.
	All Resistors	RS1/16S###J

CAPACITORS

Mark	No. Description	Part No.
	C 4803,4804	CEAT2R2M50
	C 4805,4806	CEAT100M50
	C 4811,4812,4885,4895	CKSRYB472K50
	C 4821	CEAT101M16
	C 4822,4829,4831,4844	CKSRYB103K50
	C 4824-4826,4828,4843	CKSRYB104K16
	C 4830	CCSRCH331J50
	C 4842,4862,4871	CCSRCH471J50
	C 4861,4882	CKSRYB104K16
	C 4863,4872,4883,4893	CKSRYB103K50
	C 4884,4894	CKSRYB102K50

F HDMI & DVC ASSY

SEMICONDUCTORS

Mark	No. Description	Part No.
	IC 101	SII9135CTU
	IC 151	TC74VHC126FTS1
	IC 201	TC74VHC541FTS1
	IC 202	ICS571MLF
	IC 203	TC7WH74FU
	IC 204,205	TC7WH157FU
	IC 251	TC74LCX157FTS1
	IC 301	SII9134CTU
	IC 401	ADV7800BSTZ-80
	IC 402	TC7WHU04FU
	IC 501	PEG118A
	IC 502	AYW7243
	IC 504	BU4094BCFV
	IC 505	TC7WH125FU
	IC 506	TC7WT125FU
	IC 601	ADV7172KSTZ
⚠	IC 1001	BD9011KV
⚠	IC 1051	PQ200WNA1ZPH
⚠	IC 1071	NJM78M05DL1A
	IC 1151	CXB1442AR
	IC 1203,1251,1253	S-24CS02AFT
	IC 1204,1252,1254	TC7MB3257FK
	IC 1255,1257	TC7WBD125AFK
	IC 1301	FLI2310-LF-CF
	IC 1351	IS42S32200E-6TL
	IC 1381,1383,1384	TC74LCX541FTS1
	Q 152,352,1102,1151	DTC114YUA
	Q 201	DTA124EUA
	Q 351	UMB1N
	Q 631,641,651,661	2SA1576A
	Q 671,681,1051	2SA1576A
⚠	Q 1001,1002	SP8K1
	Q 1052	DTC124EUA
	Q 1152,1154,1202	DTC114YUA
	Q 1153	2SB1689
	Q 1251-1253	DTC114YUA
	Q 1281	HN1K02FU
	D 301	UDZS5R1(B)
	D 551	RB501V-40
	D 1001,1002	RB160VA-40
⚠	D 1003,1004	RLZ5.6B
⚠	D 1071	RLZ6.8B
	D 1102,1151,1152	DAN202U

MISCELLANEOUS

Mark	No. Description	Part No.
	L 101-104,301-305 CHIP BEADS	ATL7010
	L 105,106 CHIP SOLID INDUCTOR	QTL1013
	L 201 INDUCTOR	CTF1379
	L 202-204 CHIP SOLID INDUCTOR	ATL7002
	L 207,251 CHIP FERRITE BEADS	VTL1169
	L 351-354 COIL	ATH7022
	L 401,402,404,406 CHIP BEADS	ATL7010
	L 403,405 CHIP SOLID INDUCTOR	QTL1013
	L 501,601 CHIP SOLID INDUCTOR	ATL7002

Mark	No. Description	Part No.
L	602 CHIP SOLID INDUCTOR	ATL7002
L	631,641,651,661 INDUCTOR	ATL7015
L	671,681 INDUCTOR	ATL7015
L	1001,1151 CHIP BEADS	ATL7010
L	1002 INDUCTOR	DTL1135
L	1003 INDUCTOR	ATL7013
L	1092,1093 INDUCTOR	CTF1386
L	1301-1305 CHIP SOLID INDUCTOR	ATL7002
L	1351 CHIP SOLID INDUCTOR	ATL7002
JA	301 HDMI CONNECTOR	AKP7220
JA	1102,1151,1152 HDMI CONNECTOR	AKP1318
X	101 CRYSTAL RESONATOR (28.322MHz)	ASS7085
X	401 CRYSTAL RESONATOR (28.63636MHz)	ASS7069
X	501 CERAMIC RESONATOR (15.7MHz)	XSS3004
X	1301 CRYSTAL RESONATOR (13.5MHZ)	ASS7070
CN	1001,1002 CONNECTOR	CKS4898

RESISTORS

Mark	No. Description	Part No.
R	101,103-105	RAB4CQ220J
R	108	RAB4CQ100J
R	115,1385-1388,1394	RAB4CQ680J
R	119,331,333-341	RAB4CQ473J
R	130-132,134-136	RAB4CQ220J
R	141-144	ACN1275
R	204	RAB4CQ330J
R	304	RS1/16SS6800F
R	428,429	RAB4CQ470J
R	432,433	RAB4CQ560J
R	434,437,442,443	RAB4CQ473J
R	446,447,450	RAB4CQ473J
R	464,465,467,468	RAB4CQ472J
R	480-483,1314-1317	RAB4CQ220J
R	579	RAB4CQ0R0J
R	596	RAB4CQ101J
R	609-612	RS1/16SS1201F
R	633,643,653,663	RS1/16SS2200F
R	634,644,654,664	RS1/16SS4700F
R	635,645,655,665	RS1/10S0R0J
R	673,683	RS1/16SS2200F
R	674,684	RS1/16SS4700F
R	675,685,1008,1009	RS1/10S0R0J
R	1002,1004	ACN7156
R	1011	RS1/16SS4702F
R	1012,1022	RS1/16SS1502F
R	1023	RS1/16SS1202F
R	1031,1095,1096	RS1/10S0R0J
R	1052,1053	RS1/10S6R8J
R	1057	RS1/16SS1801F
R	1059	RS1/16SS2001F
R	1071-1073	RS1/16S0R0J
R	1160	RS1/16SS4701F
R	1352	RAB4CQ220J
	Other Resistors	RS1/16SS###J

CAPACITORS

Mark	No. Description	Part No.
C	101,102,301,302	DCH1165
C	103,104,303-305	CKSQYB106K6R3
C	105,113,121,122	CKSSYB105K6R3
C	106-108,110	CKSSYB104K10
C	109,111,131,152	CKSSYB103K16
C	114-120,123-126	CKSSYB104K10

Mark	No. Description	Part No.
C	127,320,463,1339	CCSSCH120J50
C	128,462	CCSSCH100D50
C	129,130,133,307	CKSSYB105K6R3
C	132,134-139,151	CKSSYB104K10
C	153,203,204,308	CKSSYB103K16
C	201,205-207,251	CKSSYB104K10
C	202	CEVW4R7M35
C	210	CKSSYB471K50
C	306,309,311,313	CKSSYB104K10
C	310,312,314	CKSSYB105K6R3
C	315,316,351,403	CKSSYB104K10
C	317-319,404,433	CKSSYB105K6R3
C	401,402,419,434	CEVW101M16
C	405-411,418,420	CKSSYB104K10
C	412,414,435,436	CKSSYB103K16
C	413	CKSSYB823K10
C	415	CKSRYB824K10
C	416	CKSSYB393K10
C	417	CKSQYB106K6R3
C	421,1004,1006	CKSSYB102K50
C	422-429,431,437	CKSSYB104K10
C	430,432,1073,1302	CEVW100M16
C	438,441-443	CKSSYB104K10
C	439,440,1056,1303	DCH1201
C	445-449,461,502	CKSSYB104K10
C	501,613,1313	CKSSYB103K16
C	503,601,611,1301	CEVW101M16
C	504,506,508,509	CKSSYB104K10
C	505,610,1314-1318	CKSSYB105K6R3
C	551,552,602-609	CKSSYB104K10
C	612,614,615,617	CKSSYB104K10
C	631,641,651,661	CKSSYB104K10
C	632,633,642,643	CCSSCH101J50
C	652,653,662,663	CCSSCH101J50
C	671,681,1054	CKSSYB104K10
C	672,673,682,683	CCSSCH101J50
C	1001	CEVW470M25
C	1002	CCG1195
C	1005,1012,1017,1018	CKSRYB104K25
C	1010	CKSRYB152K50
C	1011,1024	BCG1059
C	1013,1014,1022	CKSRYB105K10
C	1015	CKSRYB332K50
C	1016	CCSSCH330J50
C	1019	CCSSCH221J50
C	1020	CKSRYB103K25
C	1021,1025,1072	CKSRYB104K25
C	1023	CKSRYB222K50
C	1051,1053	CKSQYB105K25
C	1052	CKSQYB224K25
C	1071	CEVW1R0M50
C	1152-1159,1203,1204	CKSSYB104K10
C	1160	DCH1165
C	1251-1256,1306	CKSSYB104K10
C	1305	CEVW101M16
C	1308-1312,1319-1322	CKSSYB104K10
C	1324-1332,1335-1338	CKSSYB104K10
C	1340	CCSSCH120J50
C	1341,1381-1383	CKSSYB104K10

Mark	No.	Description	Part No.
C	1351		ACH7174
C	1352-1363		CKSSYB105K6R3

A

H BINDER ASSY

MISCELLANEOUS

JH	3901	PCB BINDER	VEF1040

I BIND L FRONT ASSY

MISCELLANEOUS

JH	5961,5962	PCB BINDER	VEF1040

B

J BIND L BACK ASSY

MISCELLANEOUS

JH	5971,5972	PCB BINDER	VEF1040

K BIND R FRONT ASSY

MISCELLANEOUS

JH	5981	PCB BINDER	VEF1040

C

L BIND R BACK ASSY

MISCELLANEOUS

JH	5991	PCB BINDER	VEF1040

M DISPLAY ASSY

SEMICONDUCTORS

IC	3001		PE5615A
IC	3003		S-1200B33-M5
IC	3004		PDC158A8
Q	3001		2SA1576A
Q	3002,3012		DTC124EUA
Q	3004		2SK2034
Q	3005-3011		DTC143EUA
Q	3013		DTA124EUA
D	3001,3003,3004		1SS352
D	3002,3005		DAN202U
D	3006		RB751V-40
D	3007,3009,3011,3013		SLR-343VC(NPQ)
D	3015,3019		SLR343BC4T(JKLM)
D	3017		SLR343WBCT(MNPQ)

D

E

MISCELLANEOUS

L	3002	CHIP SOLID INDUCTOR	ATL7002
KN	3001	FL HOLDER(FE)	VNF1096
V	3001	FL TUBE DISPLAY	AAV7113
S	3001-3020,3025	SWITCH	VSG1024
S	3024	ROTARY ENCODER	ASX7048
X	3001	CERAMIC RESONATOR (15.0MHz)	VSS1142
X	3002	CRYSTAL OSCILLATOR (5.00MHz)	CSS1653
CN	3003	CONNECTOR	CKS3398
JH	3001	3P CABLE HOLDER	51048-0300
JH	3002	4P CABLE HOLDER	51048-0400
JP	3001	JUMPER WIRE	D20PDY0305E
JP	3002	JUMPER WIRE	D20PDY0405E
U	3001	REMOTE RECEIVER UNIT	GP1UE274XKC1

F

Mark	No.	Description	Part No.

RESISTORS

		All Resistors	RS1/16S###J

CAPACITORS

C	3001,3006,3030,3036		CKSRYB102K50
C	3002,3003,3008,3045		CKSRYB104K16
C	3004		CCSRCH471J50
C	3007,3091		CEJQ221M6R3
C	3009,3010,3027		CKSRYB103K50
C	3011-3026,3035,3069		CKSRYB471K50
C	3028		CEJQ101M6R3
C	3029,3037,3042,3044		CKSRYB105K10
C	3031		CKSRYB104K50
C	3032		CEAT470M50
C	3034		CEAT101M35
C	3038,3039		CKSRYB102K50
C	3040,3041		CCSRCH120J50
C	3048,3049,3051,3056		CKSRYB104K16
C	3057,3089		CKSRYB104K16
C	3065-3067,3076		CKSRYB103K50
C	3068		CKSRYB153K50
C	3070		CKSRYB471K50

N MULTI JOG ASSY

MISCELLANEOUS

S	3501	ROTARY ENCODER	ASX7031
CN	3501	3P JUMPER CONNECTOR	52147-0310

RESISTORS

All Resistors RS1/16S###J

CAPACITORS

C	3501,3502		CKSRYB103K50

O POWER SW ASSY

SEMICONDUCTORS

Q	3401		DTC143EUA
D	3402		SLR343BC4T(JKLM)

MISCELLANEOUS

S	3401	SWITCH	VSG1024
CN	3401	4P JUMPER CONNECTOR	52147-0410

RESISTORS

		All Resistors	RS1/16S###J

P DIODE ASSY

SEMICONDUCTORS

⚠ D	4701,4702		D5SBA20(B)

MISCELLANEOUS

CN	4701	CONNECTOR4P	AKM7085

RESISTORS

⚠		All Resistors	RD1/4MUF###J

CAPACITORS

C	4701,4702		CFTLA104J2A

Q HEADPHONE ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
JA	3451	PHONE JACK	AKN7029
KN	3451	WRAPPING TERMINAL	VNF1084
CN	3451	4P JUMPER CONNECTOR	52147-0410

RESISTORS

Mark	No.	Description	Part No.
	All Resistors		RS1/16S###J

CAPACITORS

Mark	No.	Description	Part No.
C	3451,3452		CKSRYB392K50
C	3453		CKSRYB471K50
C	3454		CKSRYB103K50
C	3455		CKSRYB104K50

R POWER AMP ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠ IC	5751		NJM78M12FA
⚠ IC	5752		NJM79M12FA
⚠ IC	5763		BA178M12FP
IC	5771		BA4560RF
⚠ Q	5001,5101,5201,5301		STD03N
⚠ Q	5002,5102,5202,5302		STD03P
Q	5041,5141,5241,5341		2SA1255
⚠ Q	5401,5501,5601		STD03N
⚠ Q	5402,5502,5602		STD03P
Q	5441,5541,5641		2SA1255
Q	5700,5811,5821,5831		DTC114TUA
Q	5701		RN1901
Q	5702,5703		UMD2N
⚠ Q	5705		2SD1763A
⚠ Q	5706		2SC3906K
⚠ Q	5707		2SB1186A
⚠ Q	5708		2SA1514K
Q	5731,5741,5742		2SC4081
Q	5781,5782,5785		DTC124EUA
Q	5783,5784		DTA124EUA
Q	5841,5851		DTC114TUA
⚠ D	5003,5004,5103,5104		1SS355
⚠ D	5005,5006,5105,5106		UDZS4R7(B)
D	5041-5044,5141-5144		1SS355
⚠ D	5203,5204,5303,5304		1SS355
⚠ D	5205,5206,5305,5306		UDZS4R7(B)
D	5241-5244,5341-5344		1SS355
⚠ D	5403,5404,5503,5504		1SS355
⚠ D	5405,5406,5505,5506		UDZS4R7(B)
D	5441-5444,5541-5544		1SS355
⚠ D	5603,5604		1SS355
⚠ D	5605,5606		UDZS4R7(B)
D	5641-5644		1SS355
D	5701,5702,5721,5722		1SS352
⚠ D	5703		S1WB(A)60SD
D	5705,5708,5710		UDZS8R2(B)
D	5706,5782		UDZS7R5(B)
D	5707,5709		UDZS9R1(B)
D	5711,5712		UDZS6R8(B)
D	5713,5714		UDZS12(B)
D	5715,5719,5720		UDZS13(B)
D	5716		UDZS15(B)
⚠ D	5717,5718,5751-5754		1SR154-400
D	5755,5756,5761		RB501V-40
D	5781		UDZS5R1(B)
D	5783,5784,5811,5812		1SS352
D	5821,5822,5831,5832		1SS352
D	5841,5842,5851,5852		1SS352

MISCELLANEOUS

Mark	No.	Description	Part No.
L	5081,5181,5281,5381	COIL	ATH1053
L	5481,5581,5681	COIL	ATH1053
JA	5801	SPEAKER TERMINAL 8-P	AKE7118
JA	5802	SPEAKER TERMINAL 6-P	AKE7107
JA	5803,5804	PIN JACK(4P)	AKB7172
RY	5701	RELAY	ASR7032
RY	5811,5821,5831,5841	RELAY	ASR7001
RY	5851	RELAY	ASR7001
CN	5010,5110,5210	CONNECTOR(05P)	TUC-P05P-B1
CN	5310,5410,5510	CONNECTOR(05P)	TUC-P05P-B1
CN	5610	CONNECTOR(07P)	TUC-P07P-B1
CN	5701	CONNECTOR	B7P-VH
CN	5802,5803	21P PLUG	XKM3011
	5000	SMALL HEATSINK V5S(M	ANH7200
	5001,5002	SCREW	BBZ30P080FCC
JH	5801	4P CABLE HOLDER	51048-0400
JH	5951,5953	PCB BINDER	VEF1040
JP	5701	LEAD WITH HOUSING	ADX7651
JP	5722	AWG14 BOARD IN	ADX7650
JP	5723	AWG14 BOARD IN	ADX7461
JP	5750	CONNECTOR ASSY	PF04PG-R50
JP	5801	JUMPER WIRE	D20PDY0460E
⚠ P	5001,5002	PROTECTOR(7A)	AEK7021
⚠ P	5003,5004	IC PROTECTOR	ICP-N15

RESISTORS

Mark	No.	Description	Part No.
⚠ R	5025,5026,5125,5126		ACN7132
⚠ R	5027,5127,5227,5327		ACN7163
R	5029,5129,5229,5329		RS1/10S0R0J
⚠ R	5081,5181,5281,5381		RS1/2LMF4R7J
⚠ R	5082,5182,5282,5382		RS1LMF100J
⚠ R	5225,5226,5325,5326		ACN7132
⚠ R	5425,5426,5525,5526		ACN7132
⚠ R	5427,5527,5627		ACN7163
R	5429,5529,5629		RS1/10S0R0J
⚠ R	5481,5581,5681		RS1/2LMF4R7J
⚠ R	5482,5582,5682		RS1LMF100J
⚠ R	5625,5626		ACN7132
⚠ R	5701,5702		RS1LMF472J
⚠ R	5703,5704		RS1/2LMF332J
R	5721,5722		RD1/4MUF473J
⚠ R	5811,5812		RS2LMF331J
	Other Resistors		RS1/16S###J

CAPACITORS

Mark	No.	Description	Part No.
C	5011,5012,5111,5112		ACG7056
C	5041,5141,5241,5341		CEHANP2R2M50
C	5081,5082,5181,5182		CFTLA104J50
C	5083,5183,5283,5383		CFTLA103J2A
C	5084-5087,5089		CKSRYB272K50
C	5211,5212,5311,5312		ACG7056
C	5281,5282,5381,5382		CFTLA104J50
C	5411,5412,5511,5512		ACG7056
C	5441,5541,5641		CEHANP2R2M50
C	5481,5482,5581,5582		CFTLA104J50

Mark	No. Description	Part No.
	C 5483,5583,5683	CFTLA103J2A
	C 5611,5612	ACG7056
	C 5681,5682	CFTLA104J50
	C 5703,5704	CEAT471M2A
	C 5705,5706	CEAT101M63
	C 5707,5708	CEAT221M2A
	C 5721,5722	ACH7258
	C 5723	CEAT100M63
	C 5725,5726,5729,5730	CEATR47M2A
	C 5731	CKSRYB223K50
	C 5741	CEAT331M10
	C 5751,5752	CEAT222M25
	C 5753,5754,5761,5771	CKSRYB103K50
	C 5755,5756	CEAT221M25
	C 5762	CEAT100M50
	C 5766-5769	CKSRYB104K50
	C 5772,5781,5930,5931	CKSRYB103K50
	C 5782	CKSRYB105K10
	C 5891	CEAT101M50
	C 5901-5916	CCSRCH101J50
	C 5917-5924	CEAT470M25

S PRE-STAGE AMP ASSY

SEMICONDUCTORS

Mark	No. Description	Part No.
	Q 6001,6101,6201,6301	2SD2704K
	Q 6002,6102,6202,6302	IMT4
	Q 6003,6103,6203,6303	2SA1514K
⚠	Q 6004,6104,6204,6304	2SA1145
	Q 6005,6105,6205,6305	2SC2705
	Q 6401,6501,6601	2SD2704K
	Q 6402,6502,6602	IMT4
	Q 6403,6503,6603	2SA1514K
⚠	Q 6404,6504,6604	2SA1145
	Q 6405,6505,6605	2SC2705
⚠	D 6001,6101,6201,6301	UDZS3R6(B)
⚠	D 6002,6102,6202,6302	1SS355
⚠	D 6401,6501,6601	UDZS3R6(B)
⚠	D 6402,6502,6602	1SS355

MISCELLANEOUS

Mark	No. Description	Part No.
	CN 6010,6110,6210 CONNECTOR(05P)	TUC-P05X-B1
	CN 6310,6410,6510 CONNECTOR(05P)	TUC-P05X-B1
	CN 6603 17P CONNECTOR	52044-1745
	CN 6610 CONNECTOR(07P)	TUC-P07X-B1
	6001,6002 PCB BINDER	VEF1040

RESISTORS

Mark	No. Description	Part No.
	R 6007,6107,6207,6307	RS1/16S2001F
	R 6009,6109,6209,6309	RD1/2VM473J
	R 6011,6111,6211,6311	RN1/16SE1201D
	R 6023,6024,6123,6124	RD1/4MUF4R7J
	R 6029,6129,6229,6329	RN1/10SE3302D
	R 6030,6130,6230,6330	RN1/16SE1001D
	R 6031,6131,6231,6331	RN1/16SE1500D
	R 6223,6224,6323,6324	RD1/4MUF4R7J
	R 6407,6507,6607	RS1/16S2001F
	R 6409,6509,6609	RD1/2VM473J
	R 6411,6511,6611	RN1/16SE1201D
	R 6423,6424,6523,6524	RD1/4MUF4R7J
	R 6429,6529,6629	RN1/10SE3302D
	R 6430,6530,6630	RN1/16SE1001D
	R 6431,6531,6631	RN1/16SE1500D
	R 6623,6624	RD1/4MUF4R7J
	Other Resistors	RS1/16S###J

CAPACITORS

Mark	No. Description	Part No.
	C 6001,6101,6201,6301	CEHAT4R7M50
	C 6002,6102,6202,6302	CCSRCH221J50
	C 6004,6104,6204,6304	CKSRYB102K50
	C 6005,6006,6015,6016	CCSRCH220J50
	C 6007,6107,6207,6307	CEHAT101M10
	C 6008,6108,6208,6308	ACG7057
	C 6009,6109,6209,6309	CEHAT100M2A
	C 6017,6117,6217,6317	CEHAT331M10
	C 6023,6024,6123,6124	CEHAT100M63
	C 6032,6132,6232,6332	CKSRYB224K16
	C 6105,6106,6115,6116	CCSRCH220J50
	C 6205,6206,6215,6216	CCSRCH220J50
	C 6223,6224,6323,6324	CEHAT100M63
	C 6305,6306,6315,6316	CCSRCH220J50
	C 6401,6501,6601	CEHAT4R7M50
	C 6402,6502,6602	CCSRCH221J50
	C 6404,6504,6604	CKSRYB102K50
	C 6405,6406,6415,6416	CCSRCH220J50
	C 6407,6507,6607	CEHAT101M10
	C 6408,6508,6608	ACG7057
	C 6409,6509,6609	CEHAT100M2A
	C 6417,6517,6617	CEHAT331M10
	C 6423,6424,6523,6524	CEHAT100M63
	C 6432,6532,6632	CKSRYB224K16
	C 6505,6506,6515,6516	CCSRCH220J50
	C 6527	CCSRCH101J50
	C 6605,6606,6615,6616	CCSRCH220J50
	C 6623,6624	CEHAT100M63

T PRIMARY ASSY

SEMICONDUCTORS

Mark	No. Description	Part No.
⚠	IC 3701	NJM78M56FA
	Q 3701	DTC143EUA
	D 3701	UDZS5R1(B)
	D 3703,3704,3706	1SS352
⚠	D 3705	S1WB(A)60SD

MISCELLANEOUS

Mark	No. Description	Part No.
⚠	L 3701 LINE FILTER	XTF3004
	H 3707,3708 FUSE CLIP	AKR7001
	KN 3701 SCREW PLATE	VNE1948
⚠	RY 3701 POWER RELAY	ASR7022
⚠	T 3701 STANDBY TRANSFORMER	ATT7043
⚠	CN 3704 AC CODE SOCKET	RKP1751
⚠	CN 3709 CONNECTOR	B2P3-VH
	JH 3701 6P CABLE HOLDER	51048-0600
	JP 3710 JUMPER WIRE	D20PDY0620E

RESISTORS

Mark	No. Description	Part No.
	R 3703	RD1/4MUF220J
	Other Resistors	RS1/16S###J

CAPACITORS

Mark	No. Description	Part No.
	C 3701,3713	CKSRYB103K50
	C 3702	CEAT100M50
⚠	C 3705	XCG3010

Mark	No.	Description	Part No.
	C 3709		CFTLA103J50
⚠	C 3710		ACE7013
	C 3712		CKSRYB102K50
	C 3714		CEAT102M25

U REGULATOR ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	IC 4004		NJM78M05FA
⚠	IC 4005		NJM78M56FA
⚠	IC 4006		NJM79M05FA
⚠	D 4001-4003		1SR154-400
	D 4004-4008		UDZS6R2(B)
⚠	D 4012		D3SBA20(B)
	D 4013,4015,4016		RB501V-40
⚠	D 4014		MTZJ6R2(B)
	D 4029		1SS352

MISCELLANEOUS

Mark	No.	Description	Part No.
	H 4001-4004,4007-4010	FUSE CLIP	AKR7001
	CN 4001	8P TOP POST	B8B-EH
	CN 4003	PLUG(7P)	KM200NA7
	CN 4004	PLUG(9P)	KM200NA9
	CN 4071	PLUG(4P)	KM200NA4
	4001-4003,4005,4006	PCB BINDER	VEF1040

RESISTORS

Mark	No.	Description	Part No.
	R 4001		RS1/16S473J
⚠	Other Resistors		RD1/4MUF###J

CAPACITORS

Mark	No.	Description	Part No.
	C 4001,4016		CFTLA104J50
	C 4002		CEANP101M35
	C 4003		CEAT101M35
	C 4004		CEAT221M35
	C 4005,4023,4024		CEAT101M16
	C 4006		CEAT470M50
	C 4008,4017,4021,4022		CKSRYB103K50
	C 4018		CEAT221M16
	C 4019		CEAT682M16
	C 4020		CEAT222M16

V DC/DC ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	IC 4251		PQ1CG3032FZ
	D 4251		RB051L-40
⚠	D 4253,4273		D3SBA20(B)
⚠	D 4255		PTZ6R8(B)

MISCELLANEOUS

Mark	No.	Description	Part No.
	L 4251	INDUCTOR	ATH7020
	H 4251,4252,4271,4272	FUSE CLIP	AKR7001
	CN 4251,4252	CONNECTOR	B4B-EH
	4251,4253	PCB BINDER	VEF1040

RESISTORS

Mark	No.	Description	Part No.
⚠	R 4251,4271		RD1/4MUF4R7J
	R 4252		RN1/16SE1800D
	Other Resistors		RS1/16S####D

CAPACITORS

Mark	No.	Description	Part No.
	C 4251,4271		CFTLA104J50
	C 4255		CEHAZL102M25

Mark	No.	Description	Part No.
	C 4257		CEHAZL102M6R3
	C 4258,4259,4267,4275		CKSRYB104K50
	C 4264		ACH7294
	C 4274		CEAT682M16

W POSI1 ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	TH 7001		AEX7006

MISCELLANEOUS

Mark	No.	Description	Part No.
	CN 7001	CONNECTOR ASS'Y	PG02KA-E07

X POSI2 ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	TH 7002		PTFM04BB222Q2N34B0

MISCELLANEOUS

Mark	No.	Description	Part No.
	CN 7002	CONNECTOR ASS'Y	PG02KA-E07

Y POSI3 ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	TH 7003		AEX7008

MISCELLANEOUS

Mark	No.	Description	Part No.
	CN 7003	CONNECTOR ASS'Y	PG03KS-E07

FM/AM TUNER UNIT

FM/AM TUNER UNIT has no service part.